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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/715,066

11/17/2003

Timothy O'Brien

022438.45514

6392

7590

08/07/2006

McTavish Patent Firm  
429 Birchwood Courts  
Birchwood, MN 55110

EXAMINER

REDDIG, PETER J

ART UNIT

PAPER NUMBER

1642

DATE MAILED: 08/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/715,066

Applicant(s)

O'BRIEN ET AL.

Examiner

Peter J. Reddig

Art Unit

1642

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 5-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2/2/04, 5/9/05</u> . | 6) <input checked="" type="checkbox"/> Other: <u>Appendix 1</u> .                       |

## DETAILED ACTION

### *Election*

1. The response filed on May 15, 2006 to the restriction requirement of April 24, 2006 has been received. Applicant has elected Group 1, claims 1-4 for examination without traverse.
2. Claims 1-20 are pending.
3. Claims 5-20 have also been withdrawn from further consideration by the examiner under 37 CFR 1.142(b) as being drawn to non-elected inventions.
4. Claims 1-4 are currently under consideration.

### *Specification Objections*

5. The abstract of the disclosure is objected to because it exceeds the maximum length of 150 words. Correction is required. See CFR § 1.72
6. The disclosure is objected to because of the following informalities:  
  
The teaching, “The **genomic** (emphasis added) DNA for the CA125 gene is set out in SEQ ID NO: 4” [0041], line bridging p. 10 and 11, [0043], 1<sup>st</sup> line, in stating the SEQ ID NO: 4 is genomic DNA contradicts the following teachings, “A full length cDNA molecule for CA125 is set out in Table 4 and SEQ ID NO: 4 p. 4”, lines 16 -17, and “The isolated cDNA sequences (Table 4 and SEQ ID NO: 4) of the present invention can be inserted into an expression vector”, [0043], first line, which state that SEQ ID NO: 4 is a cDNA molecule.

Appropriate correction is required.

***Priority***

7. Examiner has established a priority date of November 15, 2002 for claims 1 and 2 of the instantly claimed serial number 10/715,066 because pending claim 1 recites an isolated nucleic acid molecule encoding CA125, which reads on an isolated nucleic acid molecule encoding the full-length CA125. Pending claim 2 recites the isolated nucleic acid molecule of claim 1 comprising the sequence of SEQ ID NO: 4. A review of the parent applications only supports the claimed limitations in provisional application 60/427,045, which has a filing date of November 15, 2002. Applicant is invited to submit evidence pointing to the serial number, page and line where support can be found establishing an earlier priority date.

Examiner has established a priority date of November 17, 2003 for claim 3 of the instantly claimed serial number 10/715,066 because pending claim 3 recites the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 and a review of the parent applications did not reveal support for the claimed limitations of a sequence that has at least about 70% homology with SEQ ID NO: 4. Support for an isolated nucleic acid molecule encoding CA125, the isolated nucleic acid molecule of encoding CA125 comprising the sequence of SEQ ID NO: 4, and the molecule which is a fragment of the isolated nucleic acid molecule comprising the sequence of SEQ ID NO: 4 was found in one or more of the parent applications. Applicant is invited to submit evidence pointing to the serial number, page and line where support can be found establishing an earlier priority date.

Examiner has established a priority date of April 17, 2001 for claim 4 of the instantly claimed serial number 10/715,066 because pending claim 4 recites the isolated nucleic acid

Art Unit: 1642

molecule of claim 2 wherein said molecule is a fragment thereof. A review of the parent applications revealed the claimed limitations.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected for being indefinite in the use of CA125 as the sole means of identifying the claimed isolated nucleic acid molecule. The use of only laboratory designations to identify a particular isolated nucleic acid molecule renders the claim indefinite because different laboratories may use the same laboratory designations to define completely different nucleic acid molecules. Amendment of the claims to include the SEQ ID NO: is required, because SEQ ID NO: are unique identifiers which unambiguously define a given nucleic acid molecule.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 1642

9. Claims 3 and 4 are rejected under 35 USC 112, first paragraph, as lacking an adequate written description in the specification.

Claims 3 and 4 are drawn to the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 (claim 3) and the isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof (claim 4).

Claims 3 and 4 encompass a genus of widely varying species of isolated nucleic acid molecules comprising the sequence of SEQ ID NO: 4 which are at least about 70% homologous with SEQ ID NO: 4 or a fragment thereof. The only species presented are SEQ ID NO: 4 (the full length cDNA of CA125), SEQ ID NO: 3 (a DNA sequence showing the carboxy terminal domain of the CA125 molecule), SEQ ID NO: 2 (a DNA sequence showing the extracellular repeat portion of the CA125 molecule), and SEQ ID NO: 1 (a DNA sequence showing the extracellular amino terminal domain of the CA125 molecule), see [009].

The findings in University of California v. Eli Lilly and Co., 119 F.3d 1559, 43 USPQ2d 1398 (Fed. Cir. 1997) and Enzo Biochem, Inc. V. Gen-Probe Inc. are relevant to the instant claims. The Federal Circuit addressed the application of the written description requirement to DNA-related inventions in University of California v. Eli Lilly and Co., 119 F.3d 1559, 43 USPQ2d 1398 (Fed. Cir. 1997). The court stated that "[a] written description of an invention involving a chemical genus, like a description of a chemical species, requires a precise definition, such as by structure, formula, [or] chemical name,' of the claimed subject matter sufficient to distinguish it from other materials." Id. At 1567, 43 USPQ2d at 1405. The court also stated that

a generic statement such as "vertebrate insulin cDNA" or "mammalian insulin cDNA" without more, is not an adequate written description of the genus because it does not

Art Unit: 1642

distinguish the genus from others, except by function. It does not specifically define any of the genes that fall within its definition. It does not define any structural features commonly possessed by members of the genus that distinguish them from others. One skilled in the art therefore cannot, as one can do with a fully described genus, visualize or recognize the identity of the members of the genus. A definition by function, as we have previously indicated, does not suffice to define the genus because it is only an indication of what the gene does, rather than what it is.

Id. At 1568, 43 USPQ2d at 1406. The court concluded that "naming a type of material generally known to exist, in the absence of knowledge as to what that material consists of, is not a description of that material." Id.

Finally, the court addressed the manner by which a genus of cDNAs might be described. "A description of a genus of cDNAs may be achieved by means of a recitation of a representative number of cDNAs, defined by nucleotide sequence, falling within the scope of the genus or of a recitation of structural features common to the members of the genus, which features constitute a substantial portion of the genus." Id.

The Federal Circuit has recently clarified that a DNA molecule can be adequately described without disclosing its complete structure. See Enzo Biochem, Inc. V. Gen-Probe Inc., 296 F.3d 1316, 63 USPQ2d 1609 (Fed. Cir. 2002). The Enzo court adopted the standard that "the written description requirement can be met by 'show[ing] that an invention is complete by disclosure of sufficiently detailed, relevant identifying characteristics.... i.e., complete or partial structure, other physical and/or chemical properties, functional characteristics when coupled with a known or disclosed correlation between function and structure, or some combination of such characteristics." Id. At 1324, 63 USPQ2d at 1613 (emphasis omitted, bracketed material in original).

Thus, the instant specification may provide an adequate written description of the widely varying genus of isolated nucleic acid molecules of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 and the isolated nucleic acid molecules of claim 2 wherein said molecules are a fragment thereof, per Lilly by structurally describing a representative number of isolated nucleic acid molecules wherein the sequence has at least about 70% with SEQ ID NO: 4 or fragments of the isolated nucleic acid molecule of claim 2 or by describing "structural features common to the members of the genus, which features constitute a substantial portion of the genus." Alternatively, per Enzo, the specification can show that the claimed invention is complete "by disclosure of sufficiently detailed, relevant identifying characteristics, functional characteristics when coupled with a known or disclosed correlation between function and structure, or some combination of such characteristics."

In this case, the specification does not describe the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 and the isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof in a manner that satisfies either the Lilly or Enzo standards. The specification does not provide the complete structure of the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 and the isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof, nor does the specification provide any partial structure of such isolated nucleic acid molecule, nor any physical or chemical characteristics of the isolated nucleic acid molecule nor any functional characteristics coupled with a known or disclosed correlation between structure and function. Although the specification discloses SEQ ID NOs: 1-4, this does not provide a description of an isolated nucleic acid molecule of claim 2



Art Unit: 1642

that has at least 70% homology with SEQ ID NO: 4 or the isolated nucleic acid molecule of claim 2 molecule which is fragment thereof that would satisfy the standard set out in Enzo.

The specification also fails to describe the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 and the isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof by the test set out in Lilly. The specification describes only SEQ ID NO: 4. Therefore, it necessarily fails to describe a "representative number" of such species. In addition, the specification also does not describe "structural features common to the members of the genus, which features constitute a substantial portion of the genus."

Thus, the specification does not provide an adequate written description of the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 and the isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof required to practice the claimed invention. Since the specification fails to adequately describe the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4 and the isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof, it also fails to provide a written description for these products.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

10. A person shall be entitled to a patent unless –

Art Unit: 1642

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1 and 2 are rejected under 35 U.S.C. 102(a) as being anticipated by O'Brien et al. (Tumor Biology, 2002 May-Jun; 23:154-69, IDS) as evidenced by GenBank accession No. AF414442, version AF414442.2 (Appendix 1).

Claim 1 is drawn to an isolated nucleic acid molecule encoding CA125. Claim 2 is drawn to the isolated nucleic acid molecule of claim 1 comprising the sequence of SEQ ID NO: 4.

O'Brien et al. teach, as evidenced by GenBank accession No. AF414442, version AF414442.2, an isolated nucleic acid molecule encoding CA125 and the isolated nucleic acid molecule of claim 1 comprising the sequence of SEQ ID NO: 4, p. 159, right column.

11. A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 3 is rejected under 35 U.S.C. 102(b) as being anticipated by O'Brien et al. (Tumor Biology, 2002 May-Jun; 23:154-69, IDS) as evidenced by GenBank accession No. AF414442, version AF414442.2 (Appendix 1).

Claim 3 is drawn to the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4.

O'Brien et al. teach, as evidenced by GenBank accession No. AF414442, version AF414442.2, the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4, p. 159, right column.

Claims 3 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by NCI-CGAP (GenBank Accession No. AA640762, October 28, 1997).

Claim 3 is drawn to the isolated nucleic acid molecule of claim 2 wherein the sequence has at least about 70% homology with SEQ ID NO: 4. Claim 4 is drawn to the isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof.

Claims 3 and 4 read on fragments of the isolated nucleic acid molecule encoding CA125.

NCI-CGAP teaches an isolated nucleic acid molecule of claim 2 wherein said molecule is a fragment thereof.

### ***Double Patenting***

12. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 2-4 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 25-27 of copending Application No. 10/475,117. SEQ ID NO: 314 of

Art Unit: 1642

Application No. 10/475,117 is the full-length cDNA molecule for CA125, see [0009], lines 25-26.

The claims of Application No. 10/475,117 are drawn to an isolated nucleic acid comprising the sequence of SEQ ID NO: 314 (claim 25), an isolated nucleic acid molecule of claim 25 wherein the sequence has at least about 70% homology with SEQ ID NO: 314 (claim 26), and the isolated nucleic acid molecule of claim 25 wherein said molecule is a fragment thereof (claim 27).

This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

13. If applicant disagrees with any rejection set forth in this office action based on examiner's establishment of a priority date November 15, 2002 for claims 1 and 2 and November 17, 2003 for claim 3 of the instantly claimed application serial number 10/715,066, applicant is invited to submit evidence pointing to the serial number, page and line where support can be found establishing an earlier priority date.

14. No claims are allowed.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J. Reddig whose telephone number is (571) 272-9031. The examiner can normally be reached on M-F 8:30 a.m.-5:00 p.m..

Art Unit: 1642

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on (571) 272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter J. Reddig, Ph.D.  
Examiner  
Art Unit 1642

PJR

  
JEFFREY SIEW  
SUPERVISORY PATENT EXAMINER

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Clipboard

Details

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Range: from  to  ☐ Reverse complemented strand Features:

☐ 1: [AF414442](#). Reports Homo sapiens ovar...[gi:24419040]

[Links](#)

[Comment](#) [Features](#) [Sequence](#)

LOCUS AF414442 66765 bp mRNA linear PRI 29-OCT-2002

DEFINITION Homo sapiens ovarian cancer related tumor marker CA125 mRNA, complete cds.

ACCESSION AF414442 ;

VERSION AF414442.2 GI:24419040

KEYWORDS .

SOURCE Homo sapiens (human)

ORGANISM [Homo sapiens](#)  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 66765)

AUTHORS O'Brien,T.J., Beard,J.B., Underwood,L.J., Dennis,R.A., Santin,A.D. and York,L.

TITLE The CA125 gene: An extracellular superstructure dominated by repeat sequences

JOURNAL Tumour Biol. 22, 348-366 (2001)

PUBMED [11786729](#)

REFERENCE 2 (bases 1 to 66765)

AUTHORS O'Brien,T.J., Underwood,L.J. and Beard,J.B.

TITLE Direct Submission

JOURNAL Submitted (09-AUG-2001) Obstetrics and Gynecology, University of Arkansas for Medical Sciences, 4301 W. Markham St. Slot 718, Little Rock, AR 72205, USA

REFERENCE 3 (bases 1 to 66765)

AUTHORS O'Brien,T.J., Underwood,L.J. and Beard,J.B.

TITLE Direct Submission

JOURNAL Submitted (19-FEB-2002) Obstetrics and Gynecology, University of Arkansas for Medical Sciences, 4301 W. Markham St. Slot 718, Little Rock, AR 72205, USA

REMARK Sequence update by submitter

REFERENCE 4 (bases 1 to 66765)

AUTHORS O'Brien,T.J., Underwood,L.J. and Beard,J.B.

TITLE Direct Submission

JOURNAL Submitted (29-OCT-2002) Obstetrics and Gynecology, University of Arkansas for Medical Sciences, 4301 W. Markham St. Slot 718, Little Rock, AR 72205, USA

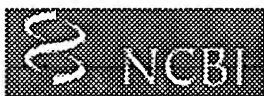
REMARK Sequence update by submitter

COMMENT On Oct 29, 2002 this sequence version replaced gi:[18182326](#).

FEATURES

source 1..66765  
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/db\_xref="taxon:[9606](#)"  
/chromosome="19"  
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/note="mucin-like glycoprotein"  
/codon\_start=1

CDS 205..66663



# Blast 2 Sequences results

Appendix 1

PubMed

Entrez

BLAST

OMIM

Taxonomy

Structure

## BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.14 [May-07-2006]

Match:  Mismatch:  gap open:  gap extension:

x\_dropoff:  expect:  wordsize:  Filter ☒ View option

Masking character option  Masking color option

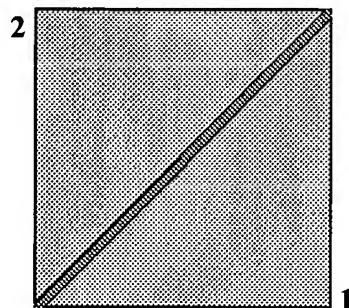
☐ Show CDS translation

Sequence 1: lcl|SEQID NO: 4

Length = 66765 (1 .. 66765)

Sequence 2: gi|24419040|gb|AF414442.2|

Length = 66765 (1 .. 66765)



NOTE: Bitscore and expect value are calculated based on the size of the nr database.

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence.

Score = 1.243e+05 bits (64636), Expect = 0.0  
Identities = 66750/66750 (100%), Gaps = 0/66750 (0%)  
Strand=Plus/Plus

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Sbjct	61	CCCAGGTCAAATGCGGGGACCCAGCCATATCTCCACCCTGAGAAATTTTGGAGTTTCA	120
Query	121	GGGAGCTCAGAAGCTCTGCAGAGGCCACCCTCTCTGAGGGGATTCTTCTTAGACCTCCAT	180
Sbjct	121	GGGAGCTCAGAAGCTCTGCAGAGGCCACCCTCTCTGAGGGGATTCTTCTTAGACCTCCAT	180
Query	181	CCAGAGGCAAATGTTGACCTGTCCATGCTGAAACCCTCAGGCCTTCCTGGGTTCATCTTCT	240
Sbjct	181	CCAGAGGCAAATGTTGACCTGTCCATGCTGAAACCCTCAGGCCTTCCTGGGTTCATCTTCT	240
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Query	661	ACCACAAGTGGCCAGTCACTGAGAAGTACACAGTCCCCACTGAGACCTCAACAACCTGAA 	720
Sbjct	661	ACCACAAGTGGCCAGTCACTGAGAAGTACACAGTCCCCACTGAGACCTCAACAACCTGAA	720
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Sbjct	721	GGTGACAGCACAGAGACCCCTGGGACACAAGATATATTCTGTAAAAATCACATCTCCA	780
Query	781	ATGAAAACATTTGCAGATTCAACTGCATCCAAGGAAAATGCCCCAGTGTCTATGACTCCA 	840
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Sbjct	901	CTTTATTCTTCCTTCCTTGACCTATCACCTAAAGGGACCCCAAATTCCAGAGGTGAAACA	960
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Query	1021	GCAGGACACAGCAGAATAAGTACCAGTGCGCCTTTGTGTCATCATCTGCTTCAGTTCTCGAT 	1080
Sbjct	1021	GCAGGACACAGCAGAATAAGTACCAGTGCGCCTTTGTGTCATCATCTGCTTCAGTTCTCGAT	1080
Query	1081	AATAAAATATCAGAGACCAGCATATTCTCAGGCCAGAGTCTCACCTCCCCTCTGTCTCCT 	1140
Sbjct	1081	AATAAAATATCAGAGACCAGCATATTCTCAGGCCAGAGTCTCACCTCCCCTCTGTCTCCT	1140
Query	1141	GGGGTGCCCGAGGCCAGAGCCAGCACAAATGCCCAACTCAGCTATCCCTTTTTCCATGACA 	1200
Sbjct	1141	GGGGTGCCCGAGGCCAGAGCCAGCACAAATGCCCAACTCAGCTATCCCTTTTTCCATGACA	1200
Query	1201	CTAAGCAATGCAGAAACAAGTGCCGAAAGGGTCAGAAGCACAAATTCCTCTCTGGGGACT 	1260
Sbjct	1201	CTAAGCAATGCAGAAACAAGTGCCGAAAGGGTCAGAAGCACAAATTCCTCTCTGGGGACT	1260



Query	1261	CCATCAATATCCACAAAAGCAGACAGCAGAGACTATCCTTACCTTCCATGCCTTCGCTGAG	1320
Sbjct	1261	CCATCAATATCCACAAAAGCAGACAGCAGAGACTATCCTTACCTTCCATGCCTTCGCTGAG	1320
Query	1321	ACCATGGATATACCCAGCACCCACATAGCCAAGACTTTGGCTTCAGAATGGTTGGGAAGT	1380
Sbjct	1321	ACCATGGATATACCCAGCACCCACATAGCCAAGACTTTGGCTTCAGAATGGTTGGGAAGT	1380
Query	1381	CCAGGTACCCTTGGTGGCACCAGCACTTCAGCGCTGACAACCACATCTCCATCTACCACT	1440
Sbjct	1381	CCAGGTACCCTTGGTGGCACCAGCACTTCAGCGCTGACAACCACATCTCCATCTACCACT	1440
Query	1441	TTAGTCTCAGAGGAGACCAACACCCATCACTCCACGAGTGGAAAGGAAACAGAAGGAACT	1500
Sbjct	1441	TTAGTCTCAGAGGAGACCAACACCCATCACTCCACGAGTGGAAAGGAAACAGAAGGAACT	1500
Query	1501	TTGAATACATCTATGACTCCACTTGAGACCTCTGCTCCTGGAGAAGAGTCCGAAATGACT	1560
Sbjct	1501	TTGAATACATCTATGACTCCACTTGAGACCTCTGCTCCTGGAGAAGAGTCCGAAATGACT	1560
Query	1561	GCCACCTTGGTCCCCACTCTAGGTTTTACAACCTCTTGACAGCAAGATCAGAAGTCCATCT	1620
Sbjct	1561	GCCACCTTGGTCCCCACTCTAGGTTTTACAACCTCTTGACAGCAAGATCAGAAGTCCATCT	1620
Query	1621	CAGGTCTCTTCATCCCACCCAACAAGAGAGCTCAGAACCACAGGCAGCACCTCTGGGAGG	1680
Sbjct	1621	CAGGTCTCTTCATCCCACCCAACAAGAGAGCTCAGAACCACAGGCAGCACCTCTGGGAGG	1680
Query	1681	CAGAGTTCCAGCACAGCTGCCACGGGAGCTCTGACATCCTGAGGGCAACCACTTCCAGC	1740
Sbjct	1681	CAGAGTTCCAGCACAGCTGCCACGGGAGCTCTGACATCCTGAGGGCAACCACTTCCAGC	1740
Query	1741	ACCTCAAAAGCATCATCATGGACCAGTGAAAGCACAGCTCAGCAATTTAGTGAACCCAG	1800
Sbjct	1741	ACCTCAAAAGCATCATCATGGACCAGTGAAAGCACAGCTCAGCAATTTAGTGAACCCAG	1800
Query	1801	CACACACAGTGGGTGGAGACAAGTCCTAGCATGAAAACAGAGAGACCCCCAGCATCAACC	1860
Sbjct	1801	CACACACAGTGGGTGGAGACAAGTCCTAGCATGAAAACAGAGAGACCCCCAGCATCAACC	1860
Query	1861	AGTGTGGCAGCCCCTATCACCACCTTCTGTTCCCTCAGTGGTCTCTGGCTTCACCACCCTG	1920
Sbjct	1861	AGTGTGGCAGCCCCTATCACCACCTTCTGTTCCCTCAGTGGTCTCTGGCTTCACCACCCTG	1920
Query	1921	AAGACCAGCTCCACAAAAGGGATTTGGCTTGAAGAAACATCTGCAGACACACTCATCGGA	1980
Sbjct	1921	AAGACCAGCTCCACAAAAGGGATTTGGCTTGAAGAAACATCTGCAGACACACTCATCGGA	1980
Query	1981	GAATCCACAGCTGGCCCCAACCACCCATCAGTTTGCTGTTCCCACTGGGATTTCAATGACA	2040
Sbjct	1981	GAATCCACAGCTGGCCCCAACCACCCATCAGTTTGCTGTTCCCACTGGGATTTCAATGACA	2040
Query	2041	GGAGGCAGCAGCACCAGGGGAAGCCAGGGCACAACCCACCTACTCACCAGAGCCACAGCA	2100
Sbjct	2041	GGAGGCAGCAGCACCAGGGGAAGCCAGGGCACAACCCACCTACTCACCAGAGCCACAGCA	2100
Query	2101	TCATCTGAGACATCCGCAGATTTGACTCTGGCCACGAACGGTGTCCCAGTCTCCGTGTCT	2160
Sbjct	2101	TCATCTGAGACATCCGCAGATTTGACTCTGGCCACGAACGGTGTCCCAGTCTCCGTGTCT	2160
Query	2161	CCAGCAGTGAGCAAGACGGCTGCTGGCTCAAGTCCTCCAGGAGGGACAAAGCCATCATAT	2220
Sbjct	2161	CCAGCAGTGAGCAAGACGGCTGCTGGCTCAAGTCCTCCAGGAGGGACAAAGCCATCATAT	2220
Query	2221	ACAATGGTTTCTTCTGTCTATCCCTGAGACATCATCTCTACAGTCCTCAGCTTTCAGGGAA	2280

Sbjct	2221	 ACAATGGTTTCTTCTGTCAATCCCTGAGACATCATCTCTACAGTCCTCAGCTTTTCAGGGAA	2280
Query	2281	GGAACCAGCCTGGGACTGACTCCATTAAACACTAGACATCCCTTCTCTTCCCCTGAACCA	2340
Sbjct	2281	 GGAACCAGCCTGGGACTGACTCCATTAAACACTAGACATCCCTTCTCTTCCCCTGAACCA	2340
Query	2341	GACTCTGCAGGACACACCAAGATAAGCACCAGCATTCTCTGTGTCATCTGCTTCAGTT	2400
Sbjct	2341	 GACTCTGCAGGACACACCAAGATAAGCACCAGCATTCTCTGTGTCATCTGCTTCAGTT	2400
Query	2401	CTTGAGGATAAAAGTGTGAGCGACCAGCACATTCTCACACCACAAAGCCACCTCATCTATT	2460
Sbjct	2401	 CTTGAGGATAAAAGTGTGAGCGACCAGCACATTCTCACACCACAAAGCCACCTCATCTATT	2460
Query	2461	ACCACAGGGACTCCTGAAATCTCAACAAAGACAAAGCCCAGCTCAGCCGTTCTTTCTCTCC	2520
Sbjct	2461	 ACCACAGGGACTCCTGAAATCTCAACAAAGACAAAGCCCAGCTCAGCCGTTCTTTCTCTCC	2520
Query	2521	ATGACCCCTAAGCAATGCAGCAACAAGTCTGAAAGAGTCAGAAATGCAACTTCCCCTCTG	2580
Sbjct	2521	 ATGACCCCTAAGCAATGCAGCAACAAGTCTGAAAGAGTCAGAAATGCAACTTCCCCTCTG	2580
Query	2581	ACTCATCCATCTCCATCAGGGGAAGAGACAGCAGGGAGTGTCTCACTCTCAGCACCTCT	2640
Sbjct	2581	 ACTCATCCATCTCCATCAGGGGAAGAGACAGCAGGGAGTGTCTCACTCTCAGCACCTCT	2640
Query	2641	GCTGAGACTACAGACTCACCTAACATCCACCCAACTGGGACACTGACTTCAGAATCGTCA	2700
Sbjct	2641	 GCTGAGACTACAGACTCACCTAACATCCACCCAACTGGGACACTGACTTCAGAATCGTCA	2700
Query	2701	GAGAGTCCTAGCACTCTCAGCCTCCCAAGTGTCTCTGGAGTCAAAACCACATTTTCTTCA	2760
Sbjct	2701	 GAGAGTCCTAGCACTCTCAGCCTCCCAAGTGTCTCTGGAGTCAAAACCACATTTTCTTCA	2760
Query	2761	TCTACTCCTTCCACTCATCTATTTACTAGTGGAGAAGAAACAGAGGAAACTTCGAATCCA	2820
Sbjct	2761	 TCTACTCCTTCCACTCATCTATTTACTAGTGGAGAAGAAACAGAGGAAACTTCGAATCCA	2820
Query	2821	TCTGTGTCTCAACCTGAGACTTCTGTTTCCAGAGTAAGGACCACCTTGGCCAGCACCTCT	2880
Sbjct	2821	 TCTGTGTCTCAACCTGAGACTTCTGTTTCCAGAGTAAGGACCACCTTGGCCAGCACCTCT	2880
Query	2881	GTCCCTACCCCAGTATTCCCCACCATGGACACCTGGCCTACACGTTTCAGCTCAGTTCTCT	2940
Sbjct	2881	 GTCCCTACCCCAGTATTCCCCACCATGGACACCTGGCCTACACGTTTCAGCTCAGTTCTCT	2940
Query	2941	TCATCCCACCTAGTGAGTGAGCTCAGAGCTACGAGCAGTACCTCAGTTACAAACTCAACT	3000
Sbjct	2941	 TCATCCCACCTAGTGAGTGAGCTCAGAGCTACGAGCAGTACCTCAGTTACAAACTCAACT	3000
Query	3001	GGTTCAGCTCTTCTTAAATATCTCACCTCACTGGGACGGCAACAATGTCACAGACCAAT	3060
Sbjct	3001	 GGTTCAGCTCTTCTTAAATATCTCACCTCACTGGGACGGCAACAATGTCACAGACCAAT	3060
Query	3061	AGAGACACGTTTAAATGACTCTGCTGCACCCCCAAAGCACAACTTGGCCAGAGACTAGTCCC	3120
Sbjct	3061	 AGAGACACGTTTAAATGACTCTGCTGCACCCCCAAAGCACAACTTGGCCAGAGACTAGTCCC	3120
Query	3121	AGATTCAAGACAGGGTTACCTTCAGCAACAACCACTGTTTCAACCTCTGCCACTTCTCTC	3180
Sbjct	3121	 AGATTCAAGACAGGGTTACCTTCAGCAACAACCACTGTTTCAACCTCTGCCACTTCTCTC	3180
Query	3181	TCTGCTACTGTAATGGTCTCTAAATTCACCTTCTCCAGCAACTAGTTCCATGGAAGCAACT	3240
Sbjct	3181	 TCTGCTACTGTAATGGTCTCTAAATTCACCTTCTCCAGCAACTAGTTCCATGGAAGCAACT	3240

Query	3241	TCTATCAGGGGAACCATCAACAACCATCCTCACAACAGAGACCACGAATGGCCCAGGCTCT	3300
Sbjct	3241	TCTATCAGGGGAACCATCAACAACCATCCTCACAACAGAGACCACGAATGGCCCAGGCTCT	3300
Query	3301	ATGGCTGTGGCTTCTACCAACATCCCAATTGGAAAGGGCTACATTACTGAAGGAAGATTG	3360
Sbjct	3301	ATGGCTGTGGCTTCTACCAACATCCCAATTGGAAAGGGCTACATTACTGAAGGAAGATTG	3360
Query	3361	GACACAAGCCATCTGCCCATTTGGAACCACAGCTTCCTCTGAGACATCTATGGATTTTACC	3420
Sbjct	3361	GACACAAGCCATCTGCCCATTTGGAACCACAGCTTCCTCTGAGACATCTATGGATTTTACC	3420
Query	3421	ATGGCCAAAGAAAGTGTCTCAATGTCAGTATCTCCATCTCAGTCCATGGATGCTGCTGGC	3480
Sbjct	3421	ATGGCCAAAGAAAGTGTCTCAATGTCAGTATCTCCATCTCAGTCCATGGATGCTGCTGGC	3480
Query	3481	TCAAGCACTCCAGGAAGGACAAGCCAATTCGTTGACACATTTTCTGATGATGTCTATCAT	3540
Sbjct	3481	TCAAGCACTCCAGGAAGGACAAGCCAATTCGTTGACACATTTTCTGATGATGTCTATCAT	3540
Query	3541	TTAACATCCAGAGAAATTACAATACCTAGAGATGGAACAAGCTCAGCTCTGACTCCACAA	3600
Sbjct	3541	TTAACATCCAGAGAAATTACAATACCTAGAGATGGAACAAGCTCAGCTCTGACTCCACAA	3600
Query	3601	ATGACTGCAACTCACCTCCATCTCCTGATCCTGGCTCTGCTAGAAGCACCTGGCTTGGC	3660
Sbjct	3601	ATGACTGCAACTCACCTCCATCTCCTGATCCTGGCTCTGCTAGAAGCACCTGGCTTGGC	3660
Query	3661	ATCTTGTCTCATCTCCTTCTTCTCCTACTCCCAAAGTCACAATGAGCTCCACATTTTCA	3720
Sbjct	3661	ATCTTGTCTCATCTCCTTCTTCTCCTACTCCCAAAGTCACAATGAGCTCCACATTTTCA	3720
Query	3721	ACTCAGAGAGTCACCACAAGCATGATAATGGACACAGTTGAAACTAGTCGGTGGAACATG	3780
Sbjct	3721	ACTCAGAGAGTCACCACAAGCATGATAATGGACACAGTTGAAACTAGTCGGTGGAACATG	3780
Query	3781	CCCAACTTACCTTCCACGACTTCCCTGACACCAAGTAATATTCCAACAAGTGGTGCCATA	3840
Sbjct	3781	CCCAACTTACCTTCCACGACTTCCCTGACACCAAGTAATATTCCAACAAGTGGTGCCATA	3840
Query	3841	GGAAAAAGCACCTGGTTCCCTTGGACACTCCATCTCCAGCCACATCATTGGAGGCATCA	3900
Sbjct	3841	GGAAAAAGCACCTGGTTCCCTTGGACACTCCATCTCCAGCCACATCATTGGAGGCATCA	3900
Query	3901	GAAGGGGGACTTCCAACCCTCAGCACCTACCCTGAATCAACAAACACACCCAGCATCCAC	3960
Sbjct	3901	GAAGGGGGACTTCCAACCCTCAGCACCTACCCTGAATCAACAAACACACCCAGCATCCAC	3960
Query	3961	CTCGGAGCACACGCTAGTTCAGAAAGTCCAAGCACCATCAAACCTTACCATGGCTTCAGTA	4020
Sbjct	3961	CTCGGAGCACACGCTAGTTCAGAAAGTCCAAGCACCATCAAACCTTACCATGGCTTCAGTA	4020
Query	4021	GTAAAACCTGGCTCTTACACACCTCTCACCTTCCCCTCAATAGAGACCCACATTTCATGTA	4080
Sbjct	4021	GTAAAACCTGGCTCTTACACACCTCTCACCTTCCCCTCAATAGAGACCCACATTTCATGTA	4080
Query	4081	TCAACAGCCAGAATGGCTTACTCTTCTGGGTCTTACCTGAGATGACAGCTCCTGGAGAG	4140
Sbjct	4081	TCAACAGCCAGAATGGCTTACTCTTCTGGGTCTTACCTGAGATGACAGCTCCTGGAGAG	4140
Query	4141	ACTAACACTGGTAGTACCTGGGACCCACCACCTACATCACCCTACGGATCCTAAGGAT	4200
Sbjct	4141	ACTAACACTGGTAGTACCTGGGACCCACCACCTACATCACCCTACGGATCCTAAGGAT	4200
Query	4201	ACAAGTTCAGCTCAGGTCTCTACACCCCACTCAGTGAGGACACTCAGAACCACAGAAAAC	4260

Sbjct	4201	 ACAAGTTCAGCTCAGGTCTCTACACCCCACTCAGTGAGGACACTCAGAACCACAGAAAAAC	4260
Query	4261	CATCCAAAGACAGAGTCCGCCACCCAGCTGCTTACTCTGGAAGTCCTAAAAATCTCAAGT	4320
Sbjct	4261	 CATCCAAAGACAGAGTCCGCCACCCAGCTGCTTACTCTGGAAGTCCTAAAAATCTCAAGT	4320
Query	4321	TCACCCAATCTCACCAGTCCGGCCACAAAAGCATGGACCATCACAGACACAACCTGAACAC	4380
Sbjct	4321	 TCACCCAATCTCACCAGTCCGGCCACAAAAGCATGGACCATCACAGACACAACCTGAACAC	4380
Query	4381	TCCACTCAATTACATTACACAAAAATTGGCAGAAAAATCATCTGGATTTGAGACACAGTCA	4440
Sbjct	4381	 TCCACTCAATTACATTACACAAAAATTGGCAGAAAAATCATCTGGATTTGAGACACAGTCA	4440
Query	4441	GCTCCAGGACCTGTCTCTGTAGTAATCCCTACCTCCCCTACCATTGGAAGCAGCACATTG	4500
Sbjct	4441	 GCTCCAGGACCTGTCTCTGTAGTAATCCCTACCTCCCCTACCATTGGAAGCAGCACATTG	4500
Query	4501	GAACTAACTTCTGATGTCCCAGGGGAACCCCTGGTCCTTGCTCCCAGTGAGCAGACCACA	4560
Sbjct	4501	 GAACTAACTTCTGATGTCCCAGGGGAACCCCTGGTCCTTGCTCCCAGTGAGCAGACCACA	4560
Query	4561	ATCACTCTCCCCATGGCAACATGGCTGAGTACCAGTTTGACAGAGGAAATGGCTTCAACA	4620
Sbjct	4561	 ATCACTCTCCCCATGGCAACATGGCTGAGTACCAGTTTGACAGAGGAAATGGCTTCAACA	4620
Query	4621	GACCTTGATATTTCAAGTCCAAGTTCACCCATGAGTACATTTGCTATTTTCCACCTATG	4680
Sbjct	4621	 GACCTTGATATTTCAAGTCCAAGTTCACCCATGAGTACATTTGCTATTTTCCACCTATG	4680
Query	4681	TCCACACCTTCTCATGAACTTTCAAAGTCAGAGGCAGATACCAGTGCCATTAGAAATACA	4740
Sbjct	4681	 TCCACACCTTCTCATGAACTTTCAAAGTCAGAGGCAGATACCAGTGCCATTAGAAATACA	4740
Query	4741	GATTCAACAACGTTGGATCAGCACCTAGGAATCAGGAGTTTGGGCAGAACTGGGGACTTA	4800
Sbjct	4741	 GATTCAACAACGTTGGATCAGCACCTAGGAATCAGGAGTTTGGGCAGAACTGGGGACTTA	4800
Query	4801	ACAACTGTTCTTATCACCCCACTGACAACCACGTGGACCAGTGTGATTGAACACTCAACA	4860
Sbjct	4801	 ACAACTGTTCTTATCACCCCACTGACAACCACGTGGACCAGTGTGATTGAACACTCAACA	4860
Query	4861	CAAGCACAGGACACCCCTTTCTGCAACGATGAGTCTTACTCACGTGACACAGTCACTCAA	4920
Sbjct	4861	 CAAGCACAGGACACCCCTTTCTGCAACGATGAGTCTTACTCACGTGACACAGTCACTCAA	4920
Query	4921	GATCAAACATCTATACCAGCCTCAGCATCCCCTTCCCATCTTACTGAAGTCTACCCTGAG	4980
Sbjct	4921	 GATCAAACATCTATACCAGCCTCAGCATCCCCTTCCCATCTTACTGAAGTCTACCCTGAG	4980
Query	4981	CTCGGGACACAAGGGAGAAGCTCCTCTGAGGCAACCACTTTTGGAAACCATCTACAGAC	5040
Sbjct	4981	 CTCGGGACACAAGGGAGAAGCTCCTCTGAGGCAACCACTTTTGGAAACCATCTACAGAC	5040
Query	5041	ACACTGTCCAGAGAGATTGAGACTGGCCCAACAAACATTCAATCCACTCCACCCATGGAC	5100
Sbjct	5041	 ACACTGTCCAGAGAGATTGAGACTGGCCCAACAAACATTCAATCCACTCCACCCATGGAC	5100
Query	5101	AACACAACAACAGGGAGCAGTAGTAGTGGAGTCACCTGGGCATAGCCCACCTTCCCATA	5160
Sbjct	5101	 AACACAACAACAGGGAGCAGTAGTAGTGGAGTCACCTGGGCATAGCCCACCTTCCCATA	5160
Query	5161	GGAACATCCTCCCCAGCTGAGACATCCACAAACATGGCACTGGAAAGAAGAAGTTCTACA	5220
Sbjct	5161	 GGAACATCCTCCCCAGCTGAGACATCCACAAACATGGCACTGGAAAGAAGAAGTTCTACA	5220

Query	5221	GCCACTGTCTCTATGGCTGGGACAATGGGACTCCTTGTTACTAGTGCTCCAGGAAGAAGC	5280
Sbjct	5221	GCCACTGTCTCTATGGCTGGGACAATGGGACTCCTTGTTACTAGTGCTCCAGGAAGAAGC	5280
Query	5281	ATCAGCCAGTCATTAGGAAGAGTTTCCTCTGTCCTTTCTGAGTCAACTACTGAAGGAGTC	5340
Sbjct	5281	ATCAGCCAGTCATTAGGAAGAGTTTCCTCTGTCCTTTCTGAGTCAACTACTGAAGGAGTC	5340
Query	5341	ACAGATTCTAGTAAGGGGAAGCAGCCCAAGGCTGAACACACAGGGAAATACAGCTCTCTCC	5400
Sbjct	5341	ACAGATTCTAGTAAGGGGAAGCAGCCCAAGGCTGAACACACAGGGAAATACAGCTCTCTCC	5400
Query	5401	TCCTCTCTTGAACCCAGCTATGCTGAAGGAAGCCAGATGAGCACAAGCATCCCTCTAACC	5460
Sbjct	5401	TCCTCTCTTGAACCCAGCTATGCTGAAGGAAGCCAGATGAGCACAAGCATCCCTCTAACC	5460
Query	5461	TCATCTCCTACAACCTCCTGATGTGGAATTCATAGGGGGCAGCACATTTTGGACCAAGGAG	5520
Sbjct	5461	TCATCTCCTACAACCTCCTGATGTGGAATTCATAGGGGGCAGCACATTTTGGACCAAGGAG	5520
Query	5521	GTCACCACAGTTATGACCTCAGACATCTCCAAGTCTTCAGCAAGGACAGAGTCCAGCTCA	5580
Sbjct	5521	GTCACCACAGTTATGACCTCAGACATCTCCAAGTCTTCAGCAAGGACAGAGTCCAGCTCA	5580
Query	5581	GCTACCCCTTATGTCCACAGCTTTGGGAAGCACTGAAAATACAGGAAAAGAAAACTCAGA	5640
Sbjct	5581	GCTACCCCTTATGTCCACAGCTTTGGGAAGCACTGAAAATACAGGAAAAGAAAACTCAGA	5640
Query	5641	ACTGCCTCTATGGATCTTCCATCTCCAACCTCCATCAATGGAGGTGACACCATGGATTCT	5700
Sbjct	5641	ACTGCCTCTATGGATCTTCCATCTCCAACCTCCATCAATGGAGGTGACACCATGGATTCT	5700
Query	5701	CTCACTCTCAGTAATGCCCCCAATACCACAGATTCACTTGACCTCAGCCATGGGGTGCAC	5760
Sbjct	5701	CTCACTCTCAGTAATGCCCCCAATACCACAGATTCACTTGACCTCAGCCATGGGGTGCAC	5760
Query	5761	ACCAGCTCTGCAGGGACTTTGGCCACTGACAGGTCAATTGAATACTGGTGTCACTAGAGCC	5820
Sbjct	5761	ACCAGCTCTGCAGGGACTTTGGCCACTGACAGGTCAATTGAATACTGGTGTCACTAGAGCC	5820
Query	5821	TCCAGATTGGAAAACGGCTCTGATACCTCTTCTAAGTCCCTGTCTATGGGAAACAGCACT	5880
Sbjct	5821	TCCAGATTGGAAAACGGCTCTGATACCTCTTCTAAGTCCCTGTCTATGGGAAACAGCACT	5880
Query	5881	CACACTTCCATGACTGACACAGAGAAGAGTGAAGTGTCTTCTTCAATCCATCCCCGACCT	5940
Sbjct	5881	CACACTTCCATGACTGACACAGAGAAGAGTGAAGTGTCTTCTTCAATCCATCCCCGACCT	5940
Query	5941	GAGACCTCAGCTCCTGGAGCAGAGACCACTTTGACTTCCACTCCTGGAAACAGGGCCATA	6000
Sbjct	5941	GAGACCTCAGCTCCTGGAGCAGAGACCACTTTGACTTCCACTCCTGGAAACAGGGCCATA	6000
Query	6001	AGCTTAACATTGCCTTTTTTCATCCATTCCAGTGGAAGAAGTCATTTCTACAGGCATAACC	6060
Sbjct	6001	AGCTTAACATTGCCTTTTTTCATCCATTCCAGTGGAAGAAGTCATTTCTACAGGCATAACC	6060
Query	6061	TCAGGACCAGACATCAACTCAGCACCCATGACACATTCTCCCATCACCCACCAACAATT	6120
Sbjct	6061	TCAGGACCAGACATCAACTCAGCACCCATGACACATTCTCCCATCACCCACCAACAATT	6120
Query	6121	GTATGGACCAGTACAGGCACAATTGAACAGTCCACTCAACCACTACATGCAGTTTCTTCA	6180
Sbjct	6121	GTATGGACCAGTACAGGCACAATTGAACAGTCCACTCAACCACTACATGCAGTTTCTTCA	6180
Query	6181	GAAAAAGTTTCTGTGCAGACACAGTCAACTCCATATGTCAACTCTGTGGCAGTGTCTGCT	6240

Sbjct	6181	 GAAAAAGTTTCTGTGCAGACACAGTCAACTCCATATGTCAACTCTGTGGCAGTGTCTGCT	6240
Query	6241	TCCCCTACCCATGAGAATTCAAGTCTCTTCTGGAAGCAGCACATCCTCTCCATATTCCTCA	6300
Sbjct	6241	 TCCCCTACCCATGAGAATTCAAGTCTCTTCTGGAAGCAGCACATCCTCTCCATATTCCTCA	6300
Query	6301	GCCTCACTTGAATCCTTGGATTCCACAATCAGTAGGAGGAATGCAATCACTTCCTGGCTA	6360
Sbjct	6301	 GCCTCACTTGAATCCTTGGATTCCACAATCAGTAGGAGGAATGCAATCACTTCCTGGCTA	6360
Query	6361	TGGGACCTCACTACATCTCTCCCCACTACAACCTTGGCCAAGTACTAGTTTATCTGAGGCA	6420
Sbjct	6361	 TGGGACCTCACTACATCTCTCCCCACTACAACCTTGGCCAAGTACTAGTTTATCTGAGGCA	6420
Query	6421	CTGTCCTCAGGCCATTCTGGGGTTTCAAACCCAAGTTCAACTACGACTGAATTTCCACTC	6480
Sbjct	6421	 CTGTCCTCAGGCCATTCTGGGGTTTCAAACCCAAGTTCAACTACGACTGAATTTCCACTC	6480
Query	6481	TTTTTCAGCTGCATCCACATCTGCTGCTAAGCAAAGAAATCCAGAAACAGAGACCCATGGT	6540
Sbjct	6481	 TTTTTCAGCTGCATCCACATCTGCTGCTAAGCAAAGAAATCCAGAAACAGAGACCCATGGT	6540
Query	6541	CCCCAGAATACAGCCGCGAGTACTTTGAACACTGATGCATCCTCGGTCACAGGTCTTTCT	6600
Sbjct	6541	 CCCCAGAATACAGCCGCGAGTACTTTGAACACTGATGCATCCTCGGTCACAGGTCTTTCT	6600
Query	6601	GAGACTCCTGTGGGGGCAAGTATCAGCTCTGAAGTCCCTCTTCCAATGGCCATAACTTCT	6660
Sbjct	6601	 GAGACTCCTGTGGGGGCAAGTATCAGCTCTGAAGTCCCTCTTCCAATGGCCATAACTTCT	6660
Query	6661	AGATCAGATGTTTCTGGCCTTACATCTGAGAGTACTGCTAACCCGAGTTTAGGCACAGCC	6720
Sbjct	6661	 AGATCAGATGTTTCTGGCCTTACATCTGAGAGTACTGCTAACCCGAGTTTAGGCACAGCC	6720
Query	6721	TCTTCAGCAGGGACCAAATTAAGTACTAGGACAATATCCCTGCCCACTTCAGAGTCTTTGGTT	6780
Sbjct	6721	 TCTTCAGCAGGGACCAAATTAAGTACTAGGACAATATCCCTGCCCACTTCAGAGTCTTTGGTT	6780
Query	6781	TCCTTTAGAATGAACAAGGATCCATGGACAGTGTCAATCCCTTTGGGGTCCCATCCAAC	6840
Sbjct	6781	 TCCTTTAGAATGAACAAGGATCCATGGACAGTGTCAATCCCTTTGGGGTCCCATCCAAC	6840
Query	6841	ACTAATACAGAAACAAGCATCCCAGTAAACAGCGCAGGTCCACCTGGCTTGTCCACAGTA	6900
Sbjct	6841	 ACTAATACAGAAACAAGCATCCCAGTAAACAGCGCAGGTCCACCTGGCTTGTCCACAGTA	6900
Query	6901	GCATCAGATGTAATTGACACACCTTCAGATGGGGCTGAGAGTATTCCCACTGTCTCCTTT	6960
Sbjct	6901	 GCATCAGATGTAATTGACACACCTTCAGATGGGGCTGAGAGTATTCCCACTGTCTCCTTT	6960
Query	6961	TCCCCCTCCCCTGATACTGAAGTGACAACCTATCTCACATTTCCAGAAAAGACAACCTCAT	7020
Sbjct	6961	 TCCCCCTCCCCTGATACTGAAGTGACAACCTATCTCACATTTCCAGAAAAGACAACCTCAT	7020
Query	7021	TCATTTAGAACCATTTTCATCTCTCACTCATGAGTTGACTTCAAGAGTGACACCTATTCCCT	7080
Sbjct	7021	 TCATTTAGAACCATTTTCATCTCTCACTCATGAGTTGACTTCAAGAGTGACACCTATTCCCT	7080
Query	7081	GGGGATTGGATGAGTTCAGCTATGTCTACAAAGCCCACAGGAGCCAGTCCCTCCATTACA	7140
Sbjct	7081	 GGGGATTGGATGAGTTCAGCTATGTCTACAAAGCCCACAGGAGCCAGTCCCTCCATTACA	7140
Query	7141	CTGGGAGAGAGAAGGACAATCACCTCTGCTGCTCCAACCACTTCCCCCATAGTTCTCACT	7200
Sbjct	7141	 CTGGGAGAGAGAAGGACAATCACCTCTGCTGCTCCAACCACTTCCCCCATAGTTCTCACT	7200

Query	7201	GCTAGTTTTCACAGAGACCAGCACAGTTTCACTGGATAATGAAACTACAGTAAAAACCTCA	7260
Sbjct	7201	GCTAGTTTTCACAGAGACCAGCACAGTTTCACTGGATAATGAAACTACAGTAAAAACCTCA	7260
Query	7261	GATATCCTTGACGCACGGAAAAACAAATGAGCTCCCCTCAGATAGCAGTTCTTCTTCTGAT	7320
Sbjct	7261	GATATCCTTGACGCACGGAAAAACAAATGAGCTCCCCTCAGATAGCAGTTCTTCTTCTGAT	7320
Query	7321	CTGATCAACACCTCCATAGCTTCTTCAACTATGGATGTCACTAAAAACAGCCTCCATCAGT	7380
Sbjct	7321	CTGATCAACACCTCCATAGCTTCTTCAACTATGGATGTCACTAAAAACAGCCTCCATCAGT	7380
Query	7381	CCCACTAGCATCTCAGGAATGACAGCAAGTTCTCCCCATCTCTCTTCTCTTCAGATAGA	7440
Sbjct	7381	CCCACTAGCATCTCAGGAATGACAGCAAGTTCTCCCCATCTCTCTTCTCTTCAGATAGA	7440
Query	7441	CCCCAGGTTCCACATCTACAACAGAGACAAATACAGCCACCTCTCCATCTGTTTCCAGT	7500
Sbjct	7441	CCCCAGGTTCCACATCTACAACAGAGACAAATACAGCCACCTCTCCATCTGTTTCCAGT	7500
Query	7501	AACACCTATTCTCTTGATGGGGGCTCCAATGTGGGTGGCACTCCATCCACTTTACCACCC	7560
Sbjct	7501	AACACCTATTCTCTTGATGGGGGCTCCAATGTGGGTGGCACTCCATCCACTTTACCACCC	7560
Query	7561	TTTACAATCACCACCCCTGTCGAGACAAGCTCGGCCCTATTAGCCTGGTCTAGACCAGTA	7620
Sbjct	7561	TTTACAATCACCACCCCTGTCGAGACAAGCTCGGCCCTATTAGCCTGGTCTAGACCAGTA	7620
Query	7621	AGAACTTTTCAGCACCATGGTCAGCACTGCACTGCCTCCGGAGAAAATCCTACCTCTAGC	7680
Sbjct	7621	AGAACTTTTCAGCACCATGGTCAGCACTGCACTGCCTCCGGAGAAAATCCTACCTCTAGC	7680
Query	7681	AATTCTGTGGTGACTTCTGTTCCAGCACCAGGTACATGGGCCAGTGTAGGCAGTACTACT	7740
Sbjct	7681	AATTCTGTGGTGACTTCTGTTCCAGCACCAGGTACATGGGCCAGTGTAGGCAGTACTACT	7740
Query	7741	GACTTACCTGCCATGGGCTTTCTCAAGACAAGTCCTGCAGGAGAGGCACACTCACTTCTA	7800
Sbjct	7741	GACTTACCTGCCATGGGCTTTCTCAAGACAAGTCCTGCAGGAGAGGCACACTCACTTCTA	7800
Query	7801	GCATCAACTATTGAACCAGCCACTGCCTTCACTCCCCATCTCTCAGCAGCAGTGGTCACT	7860
Sbjct	7801	GCATCAACTATTGAACCAGCCACTGCCTTCACTCCCCATCTCTCAGCAGCAGTGGTCACT	7860
Query	7861	GGATCCAGTGCTACATCAGAAGCCAGTCTTCTCACTACGAGTGAAAGCAAAGCCATTTCAT	7920
Sbjct	7861	GGATCCAGTGCTACATCAGAAGCCAGTCTTCTCACTACGAGTGAAAGCAAAGCCATTTCAT	7920
Query	7921	TCTTCACCACAGACCCCAACTACACCCACCTCTGGAGCAAACCTGGGAAACTTCAGCTACT	7980
Sbjct	7921	TCTTCACCACAGACCCCAACTACACCCACCTCTGGAGCAAACCTGGGAAACTTCAGCTACT	7980
Query	7981	CCTGAGAGCCTTTTGGTAGTCACTGAGACTTCAGACACAACACTTACCTCAAAGATTTTG	8040
Sbjct	7981	CCTGAGAGCCTTTTGGTAGTCACTGAGACTTCAGACACAACACTTACCTCAAAGATTTTG	8040
Query	8041	GTCACAGATACCATCTTGTTTTCAACTGTGTCCACGCCACCTTCTAAATTTCCAAGTACG	8100
Sbjct	8041	GTCACAGATACCATCTTGTTTTCAACTGTGTCCACGCCACCTTCTAAATTTCCAAGTACG	8100
Query	8101	GGGACTCTGTCTGGAGCTTCCTTCCCTACTTTACTCCCGGACACTCCAGCCATCCCTCTC	8160
Sbjct	8101	GGGACTCTGTCTGGAGCTTCCTTCCCTACTTTACTCCCGGACACTCCAGCCATCCCTCTC	8160
Query	8161	ACTGCCACTGAGCCAACAAGTTCATTAGCTACATCCTTTGATTCCACCCCACTGGTGACT	8220

Sbjct	8161	 ACTGCCACTGAGCCAACAAGTTCATTAGCTACATCCTTTGATTCCACCCCACTGGTGACT	8220
Query	8221	ATAGCTTCGGATAGTCTTGGCACAGTCCCAGAGACTACCCTGACCATGTCAGAGACCTCA	8280
Sbjct	8221	 ATAGCTTCGGATAGTCTTGGCACAGTCCCAGAGACTACCCTGACCATGTCAGAGACCTCA	8280
Query	8281	AATGGTGATGCACTGGTTCTTAAGACAGTAAGTAACCCAGATAGGAGCATCCCTGGAATC	8340
Sbjct	8281	 AATGGTGATGCACTGGTTCTTAAGACAGTAAGTAACCCAGATAGGAGCATCCCTGGAATC	8340
Query	8341	ACTATCCAAGGAGTAACAGAAAAGTCCACTCCATCCTTCTTCCACTTCCCCCTCTAAGATT	8400
Sbjct	8341	 ACTATCCAAGGAGTAACAGAAAAGTCCACTCCATCCTTCTTCCACTTCCCCCTCTAAGATT	8400
Query	8401	GTTGCTCCACGGAATACAACCTATGAAGGTTTCGATCACAGTGGCACTTTCTACTTTGCCT	8460
Sbjct	8401	 GTTGCTCCACGGAATACAACCTATGAAGGTTTCGATCACAGTGGCACTTTCTACTTTGCCT	8460
Query	8461	GCGGGAACACTACTGGTTCCCTTGTATTTCAGTCAGAGTTCTGAAAACCTCAGAGACAACGGCT	8520
Sbjct	8461	 GCGGGAACACTACTGGTTCCCTTGTATTTCAGTCAGAGTTCTGAAAACCTCAGAGACAACGGCT	8520
Query	8521	TTGGTAGACTCATCAGCTGGGCTTGAGAGGGCATCTGTGATGCCACTAACCACAGGAAGC	8580
Sbjct	8521	 TTGGTAGACTCATCAGCTGGGCTTGAGAGGGCATCTGTGATGCCACTAACCACAGGAAGC	8580
Query	8581	CAGGGTATGGCTAGCTCTGGAGGAATCAGAAGTGGGTCCACTCACTCAACTGGAACCAAA	8640
Sbjct	8581	 CAGGGTATGGCTAGCTCTGGAGGAATCAGAAGTGGGTCCACTCACTCAACTGGAACCAAA	8640
Query	8641	ACATTTTCTTCTCTCCCTCTGACCATGAACCCAGGTGAGGTTACAGCCATGTCTGAAATC	8700
Sbjct	8641	 ACATTTTCTTCTCTCCCTCTGACCATGAACCCAGGTGAGGTTACAGCCATGTCTGAAATC	8700
Query	8701	ACCACGAACAGACTGACAGCTACTCAATCAACAGCACCCAAAGGGATACCTGTGAAGCCC	8760
Sbjct	8701	 ACCACGAACAGACTGACAGCTACTCAATCAACAGCACCCAAAGGGATACCTGTGAAGCCC	8760
Query	8761	ACCAGTGCTGAGTCAGGCCTCCTAACACCTGTCTCTGCCTCCTCAAGCCCATCAAAGGCC	8820
Sbjct	8761	 ACCAGTGCTGAGTCAGGCCTCCTAACACCTGTCTCTGCCTCCTCAAGCCCATCAAAGGCC	8820
Query	8821	TTTGCCTCACTGACTACAGCTCCCCATCAACTTGGGGGATCCCACAGTCTACCTTGACA	8880
Sbjct	8821	 TTTGCCTCACTGACTACAGCTCCCCATCAACTTGGGGGATCCCACAGTCTACCTTGACA	8880
Query	8881	TTTGAGTTTTCTGAGGTCCCAAGTTTGGATACTAAGTCCGCTTCTTTACCAACTCCTGGA	8940
Sbjct	8881	 TTTGAGTTTTCTGAGGTCCCAAGTTTGGATACTAAGTCCGCTTCTTTACCAACTCCTGGA	8940
Query	8941	CAGTCCCTGAACACCATTCCAGACTCAGATGCAAGCACAGCATCTTCCTCACTGTCCAAG	9000
Sbjct	8941	 CAGTCCCTGAACACCATTCCAGACTCAGATGCAAGCACAGCATCTTCCTCACTGTCCAAG	9000
Query	9001	TCTCCAGnnnnnnnnCCCAAGGGCAAGGATGATGACTTCCACAAAGGCCATAAGTGCAAGC	9060
Sbjct	9001	 TCTCCAGAAAAAAACCCCAAGGGCAAGGATGATGACTTCCACAAAGGCCATAAGTGCAAGC	9060
Query	9061	TCATTTCAATCAACAGGTTTTACTGAAACCCCTGAGGGATCTGCCTCCCCTTCTATGGCA	9120
Sbjct	9061	 TCATTTCAATCAACAGGTTTTACTGAAACCCCTGAGGGATCTGCCTCCCCTTCTATGGCA	9120
Query	9121	GGGCATGAACCCAGAGTCCCCACTTCAGGAACAGGGGACCCTAGATATGCCTCAGAGAGC	9180
Sbjct	9121	 GGGCATGAACCCAGAGTCCCCACTTCAGGAACAGGGGACCCTAGATATGCCTCAGAGAGC	9180



Query	9181	ATGTCTTATCCAGACCCAAGCAAGGCATCATCAGCTATGACATCGACCTCTCTTGCA	9240
Sbjct	9181	ATGTCTTATCCAGACCCAAGCAAGGCATCATCAGCTATGACATCGACCTCTCTTGCA	9240
Query	9241	AAACTCACAACCTCTCTTCAGCACAGGTCAAGCAGCAAGGTCTGGTTCTAGTTCCTCTCCC	9300
Sbjct	9241	AAACTCACAACCTCTCTTCAGCACAGGTCAAGCAGCAAGGTCTGGTTCTAGTTCCTCTCCC	9300
Query	9301	ATAAGCCTATCCACTGAGAAAGAAACAAGCTTCCTTTCCCCCACTGCATCCACCTCCAGA	9360
Sbjct	9301	ATAAGCCTATCCACTGAGAAAGAAACAAGCTTCCTTTCCCCCACTGCATCCACCTCCAGA	9360
Query	9361	AAGACTTCACTATTTCTTGGGCCCTTCATGGCAAGGCAGCCCAACATATTGGTGCATCTT	9420
Sbjct	9361	AAGACTTCACTATTTCTTGGGCCCTTCATGGCAAGGCAGCCCAACATATTGGTGCATCTT	9420
Query	9421	CAGACTTCAGCTCTGACACTTTCTCCAACATCCACTCTAAATATGTCCCAGGAGGAGCCT	9480
Sbjct	9421	CAGACTTCAGCTCTGACACTTTCTCCAACATCCACTCTAAATATGTCCCAGGAGGAGCCT	9480
Query	9481	CCTGAGTTAACCTCAAGCCAGACCATTGCAGAAGAAGAGGGAACAACAGCTGAAACACAG	9540
Sbjct	9481	CCTGAGTTAACCTCAAGCCAGACCATTGCAGAAGAAGAGGGAACAACAGCTGAAACACAG	9540
Query	9541	ACGTTAACCTTCACACCATCTGAGACCCCAACATCCTTGTTACCTGTCTCTTCTCCCACA	9600
Sbjct	9541	ACGTTAACCTTCACACCATCTGAGACCCCAACATCCTTGTTACCTGTCTCTTCTCCCACA	9600
Query	9601	GAACCCACAGCCAGAAGAAAGAGTTCTCCAGAAACATGGGCAAGCTCTATTTTCAGTTCCT	9660
Sbjct	9601	GAACCCACAGCCAGAAGAAAGAGTTCTCCAGAAACATGGGCAAGCTCTATTTTCAGTTCCT	9660
Query	9661	GCCAAGACCTCCTTGTTGAAACAACCTGATGGAACGCTAGTGACCACCATAAAGATGTCA	9720
Sbjct	9661	GCCAAGACCTCCTTGTTGAAACAACCTGATGGAACGCTAGTGACCACCATAAAGATGTCA	9720
Query	9721	AGCCAGGCAGCACAAAGGAAATTCCACGTGGCCTGCCCCAGCAGAGGAGACGGGGACCAGT	9780
Sbjct	9721	AGCCAGGCAGCACAAAGGAAATTCCACGTGGCCTGCCCCAGCAGAGGAGACGGGGACCAGT	9780
Query	9781	CCAGCAGGCACATCCCCAGGAAGCCCAGAAGTGTCTACCACTCTCAAAATCATGAGCTCC	9840
Sbjct	9781	CCAGCAGGCACATCCCCAGGAAGCCCAGAAGTGTCTACCACTCTCAAAATCATGAGCTCC	9840
Query	9841	AAGGAACCCAGCATCAGCCCAGAGATCAGGTCCACTGTGCGAAATTCTCCTTGGAAGACT	9900
Sbjct	9841	AAGGAACCCAGCATCAGCCCAGAGATCAGGTCCACTGTGCGAAATTCTCCTTGGAAGACT	9900
Query	9901	CCAGAAACAACCTGTTCCCATGGAGACCACAGTGGAACCAGTCACCCTTCAGTCCACAGCC	9960
Sbjct	9901	CCAGAAACAACCTGTTCCCATGGAGACCACAGTGGAACCAGTCACCCTTCAGTCCACAGCC	9960
Query	9961	CTAGGAAGTGGCAGCACCAGCATCTCTCACCTGCCACAGGAACCACATCACCAACCAAG	10020
Sbjct	9961	CTAGGAAGTGGCAGCACCAGCATCTCTCACCTGCCACAGGAACCACATCACCAACCAAG	10020
Query	10021	TCACCAACAGAAAATATGTTGGCTACAGAAAGGGTCTCCCTCTCCCCATCCCCACCTGAG	10080
Sbjct	10021	TCACCAACAGAAAATATGTTGGCTACAGAAAGGGTCTCCCTCTCCCCATCCCCACCTGAG	10080
Query	10081	GCTTGGACCAACCTTTATTCTGGAACCTCAGGAGGGACCAGGCAGTCACTGGCCACAATG	10140
Sbjct	10081	GCTTGGACCAACCTTTATTCTGGAACCTCAGGAGGGACCAGGCAGTCACTGGCCACAATG	10140
Query	10141	TCCTCTGTCTCCCTAGAGTCACCAACTGCTAGAAGCATCACAGGGACTGGTCAGCAAAGC	10200

Sbjct	10141	 TCCTCTGTCTCCCTAGAGTCACCAACTGCTAGGAAGCATCACAGGGACTGGTCAGCAAAGC	10200
Query	10201	AGTCCAGAACTGGTTTCAAAGACAACTGGAATGGAATTCTCTATGTGGCATGGCTCTACT 	10260
Sbjct	10201	AGTCCAGAACTGGTTTCAAAGACAACTGGAATGGAATTCTCTATGTGGCATGGCTCTACT	10260
Query	10261	GGAGGGACCACAGGGGACACACATGTCTCTCTGAGCACATCTTCCAATATCCTTGAAGAC 	10320
Sbjct	10261	GGAGGGACCACAGGGGACACACATGTCTCTCTGAGCACATCTTCCAATATCCTTGAAGAC	10320
Query	10321	CCTGTAACCAGCCCAAACCTCTGTGAGCTCATTGACAGATAAATCCAAACATAAAACCAGAG 	10380
Sbjct	10321	CCTGTAACCAGCCCAAACCTCTGTGAGCTCATTGACAGATAAATCCAAACATAAAACCAGAG	10380
Query	10381	ACATGGGTAAGCACCCACAGCCATTCCCTCCACTGTCTGAATAATAAGATAATGGCAGCT 	10440
Sbjct	10381	ACATGGGTAAGCACCCACAGCCATTCCCTCCACTGTCTGAATAATAAGATAATGGCAGCT	10440
Query	10441	GAACAACAGACAAGTCGATCTGTGGATGAGGCTTATTCATCAACTAGTTCTTGGTCAGAT 	10500
Sbjct	10441	GAACAACAGACAAGTCGATCTGTGGATGAGGCTTATTCATCAACTAGTTCTTGGTCAGAT	10500
Query	10501	CAGACATCTGGGAGTGACATCACCCCTGGTGCATCTCCTGATGTCACAAACACATTATAC 	10560
Sbjct	10501	CAGACATCTGGGAGTGACATCACCCCTGGTGCATCTCCTGATGTCACAAACACATTATAC	10560
Query	10561	ATCACCTCCACAGCACAAACCACCTCACTAGTGTCTCTGCCCTCTGGAGACCAAGGCATT 	10620
Sbjct	10561	ATCACCTCCACAGCACAAACCACCTCACTAGTGTCTCTGCCCTCTGGAGACCAAGGCATT	10620
Query	10621	ACAAGCCTCACCAATCCCTCAGGAGGAAAAACAAGCTCTGCGTCATCTGTCACATCTCCT 	10680
Sbjct	10621	ACAAGCCTCACCAATCCCTCAGGAGGAAAAACAAGCTCTGCGTCATCTGTCACATCTCCT	10680
Query	10681	TCAATAGGGCTTGAGACTCTGAGGGCCAATGTAAGTGCAGTGAAAAGTGACATTGCCCT 	10740
Sbjct	10681	TCAATAGGGCTTGAGACTCTGAGGGCCAATGTAAGTGCAGTGAAAAGTGACATTGCCCT	10740
Query	10741	ACTGCTGGGCATCTATCTCAGACTTCATCTCCTGCGGAAGTGAGCATCCTGGACGTAACC 	10800
Sbjct	10741	ACTGCTGGGCATCTATCTCAGACTTCATCTCCTGCGGAAGTGAGCATCCTGGACGTAACC	10800
Query	10801	ACAGCTCCTACTCCAGGTATCTCCACCACCATCACCACCATGGGAACCAACTCAATCTCA 	10860
Sbjct	10801	ACAGCTCCTACTCCAGGTATCTCCACCACCATCACCACCATGGGAACCAACTCAATCTCA	10860
Query	10861	ACTACCACACCCAACCCAGAAGTGGGTATGAGTACCATGGACAGCACCCCGGCCACAGAG 	10920
Sbjct	10861	ACTACCACACCCAACCCAGAAGTGGGTATGAGTACCATGGACAGCACCCCGGCCACAGAG	10920
Query	10921	AGGCGCACAACTTCTACAGAACACCCCTCCACCTGGTCTTCCACAGCTGCATCAGATTCC 	10980
Sbjct	10921	AGGCGCACAACTTCTACAGAACACCCCTCCACCTGGTCTTCCACAGCTGCATCAGATTCC	10980
Query	10981	TGGACTGTCACAGACATGACTTCAAACCTTGAAAGTTGCAAGATCTCCTGGAACAATTTCC 	11040
Sbjct	10981	TGGACTGTCACAGACATGACTTCAAACCTTGAAAGTTGCAAGATCTCCTGGAACAATTTCC	11040
Query	11041	ACAATGCATACAACCTTATTCTTAGCCTCAAGCACTGAATTAGACTCCATGTCTACTCCC 	11100
Sbjct	11041	ACAATGCATACAACCTTATTCTTAGCCTCAAGCACTGAATTAGACTCCATGTCTACTCCC	11100
Query	11101	CATGGCCGTATAACTGTCATTGGAACCAGCCTGGTCACTCCATCCTCTGATGCTTCAGCT 	11160
Sbjct	11101	CATGGCCGTATAACTGTCATTGGAACCAGCCTGGTCACTCCATCCTCTGATGCTTCAGCT	11160

Query	11161	GTAAAGACAGAGACCAGTACAAGTGAAAGAACATTGAGTCCTTCAGACACAACCTGCATCT	11220
Sbjct	11161	GTAAAGACAGAGACCAGTACAAGTGAAAGAACATTGAGTCCTTCAGACACAACCTGCATCT	11220
Query	11221	ACTCCCATCTCAACTTTTTCTCGTGTCCAGAGGATGAGCATCTCAGTTCCTGACATTTTA	11280
Sbjct	11221	ACTCCCATCTCAACTTTTTCTCGTGTCCAGAGGATGAGCATCTCAGTTCCTGACATTTTA	11280
Query	11281	AGTACAAGTTGGACTCCAGTAGTACAGAAGCAGAAGATGTGCCTGTTTCAATGGTTTCT	11340
Sbjct	11281	AGTACAAGTTGGACTCCAGTAGTACAGAAGCAGAAGATGTGCCTGTTTCAATGGTTTCT	11340
Query	11341	ACAGATCATGCTAGTACAAAGACTGACCCAAATACGCCCTGTCCACTTTTCTGTTTGAT	11400
Sbjct	11341	ACAGATCATGCTAGTACAAAGACTGACCCAAATACGCCCTGTCCACTTTTCTGTTTGAT	11400
Query	11401	TCTCTGTCCACTCTTGACTGGGACACTGGGAGATCTCTGTCATCAGCCACAGCCACTACC	11460
Sbjct	11401	TCTCTGTCCACTCTTGACTGGGACACTGGGAGATCTCTGTCATCAGCCACAGCCACTACC	11460
Query	11461	TCAGTCTCTCAGGGGGCCACAACCTCCCCAGGAACCTCACTTTGGAAACCATGATCAGCCCA	11520
Sbjct	11461	TCAGTCTCTCAGGGGGCCACAACCTCCCCAGGAACCTCACTTTGGAAACCATGATCAGCCCA	11520
Query	11521	GCTACCTCACAGTTGCCCTTCTCTATAGGGCACATTACAAGTGCAGTCACACCAGCTGCA	11580
Sbjct	11521	GCTACCTCACAGTTGCCCTTCTCTATAGGGCACATTACAAGTGCAGTCACACCAGCTGCA	11580
Query	11581	ATGGCAAGGAGCTCTGGAGTTACTTTTTCAAGACCAGATCCCAAGCAAAAAGGCAGAG	11640
Sbjct	11581	ATGGCAAGGAGCTCTGGAGTTACTTTTTCAAGACCAGATCCCAAGCAAAAAGGCAGAG	11640
Query	11641	CAGACTTCCACTCAGCTTCCCACCACCACTTCTGCACATCCAGGGCAGGTGCCCAGATCA	11700
Sbjct	11641	CAGACTTCCACTCAGCTTCCCACCACCACTTCTGCACATCCAGGGCAGGTGCCCAGATCA	11700
Query	11701	GCAGCAACAACCTCTGGATGTGATCCACACACAGCAAAAACCTCCAGATGCAACTTTTCAG	11760
Sbjct	11701	GCAGCAACAACCTCTGGATGTGATCCACACACAGCAAAAACCTCCAGATGCAACTTTTCAG	11760
Query	11761	AGACAAGGGCAGACAGCTCTTACAACAGAGGCAAGAGCTACATCTGACTCCTGGAATGAG	11820
Sbjct	11761	AGACAAGGGCAGACAGCTCTTACAACAGAGGCAAGAGCTACATCTGACTCCTGGAATGAG	11820
Query	11821	AAAGAAAAATCAACCCCCAAGTGCACCTTGGATCACTGAGATGATGAATTCTGTCTCAGAA	11880
Sbjct	11821	AAAGAAAAATCAACCCCCAAGTGCACCTTGGATCACTGAGATGATGAATTCTGTCTCAGAA	11880
Query	11881	GATACCATCAAGGAGGTTACCAGCTCCTCCAGTGTATTAAAGGACCCTGAATACGCTGGA	11940
Sbjct	11881	GATACCATCAAGGAGGTTACCAGCTCCTCCAGTGTATTAAAGGACCCTGAATACGCTGGA	11940
Query	11941	CATAAACTTGGAACTCTGGGACGACTTCATCCCCAAGTTTGGAAAAGCAGCCCATATGAGA	12000
Sbjct	11941	CATAAACTTGGAACTCTGGGACGACTTCATCCCCAAGTTTGGAAAAGCAGCCCATATGAGA	12000
Query	12001	GAGTTGCCCCTTCTGAGTCCACCACAGGACAAAGAGGCAATTACCCCTTCTACAAACACA	12060
Sbjct	12001	GAGTTGCCCCTTCTGAGTCCACCACAGGACAAAGAGGCAATTACCCCTTCTACAAACACA	12060
Query	12061	GTAGAGACCACAGGCTGGGTACAAAGTTCCGAACATGCTTCTATTCCACTATCCCAGCC	12120
Sbjct	12061	GTAGAGACCACAGGCTGGGTACAAAGTTCCGAACATGCTTCTATTCCACTATCCCAGCC	12120
Query	12121	CACTCAGCGTCATCCAACTCACATCTCCAGTGGTTACAACCTCCACCAGGGAACAAGCA	12180

Sbjct	12121	 CACTCAGCGTCATCCAAACTCACATCTCCAGTGGTTACAACCTCCACCAGGGAACAAGCA	12180
Query	12181	ATAGTTTCTATGTCAACAACCACATGGCCAGAGTCTACAAGGGCTAGAACAGAGCCTAAT	12240
Sbjct	12181	 ATAGTTTCTATGTCAACAACCACATGGCCAGAGTCTACAAGGGCTAGAACAGAGCCTAAT	12240
Query	12241	TCCTTCTTGACTATTGAACTGAGGGACGTCAGCCCTTACATGGACACCAGCTCAACCACA	12300
Sbjct	12241	 TCCTTCTTGACTATTGAACTGAGGGACGTCAGCCCTTACATGGACACCAGCTCAACCACA	12300
Query	12301	CAAACAAGTATTATCTCTTCCCCAGGTTCCACTGCGATACCAAGGGGCCTAGAACAGAA	12360
Sbjct	12301	 CAAACAAGTATTATCTCTTCCCCAGGTTCCACTGCGATACCAAGGGGCCTAGAACAGAA	12360
Query	12361	ATTACCTCCTCTAAGAGAATATCCAGCTCATTCCTTGCCAGTCTATGAGGTCGTCAGAC	12420
Sbjct	12361	 ATTACCTCCTCTAAGAGAATATCCAGCTCATTCCTTGCCAGTCTATGAGGTCGTCAGAC	12420
Query	12421	AGCCCCCTCAGAAGCCATCACCAGGCTGTCTAACTTTCTGCCATGACAGAATCTGGAGGA	12480
Sbjct	12421	 AGCCCCCTCAGAAGCCATCACCAGGCTGTCTAACTTTCTGCCATGACAGAATCTGGAGGA	12480
Query	12481	ATGATCCTTGCTATGCAAACAAGTCCACCTGGCGCTACATCACTAAGTGCACCTACTTTG	12540
Sbjct	12481	 ATGATCCTTGCTATGCAAACAAGTCCACCTGGCGCTACATCACTAAGTGCACCTACTTTG	12540
Query	12541	GATACATCAGCCACAGCCTCCTGGACAGGGACTCCACTGGCTACGACTCAGAGATTTACA	12600
Sbjct	12541	 GATACATCAGCCACAGCCTCCTGGACAGGGACTCCACTGGCTACGACTCAGAGATTTACA	12600
Query	12601	TACTCAGAGAAGACCACTCTCTTTAGCAAAGGTCTGAGGATACATCACAGCCAAGCCCT	12660
Sbjct	12601	 TACTCAGAGAAGACCACTCTCTTTAGCAAAGGTCTGAGGATACATCACAGCCAAGCCCT	12660
Query	12661	CCCTCTGTGGAAGAAACCAGCTCTTCCTCTTCCCTGGTACCTATCCATGCTACAACCTCG	12720
Sbjct	12661	 CCCTCTGTGGAAGAAACCAGCTCTTCCTCTTCCCTGGTACCTATCCATGCTACAACCTCG	12720
Query	12721	CCTTCCAATATTTTGTGACATCACAAGGGCACAGTCCCTCCTCTACTCCACCTGTGACC	12780
Sbjct	12721	 CCTTCCAATATTTTGTGACATCACAAGGGCACAGTCCCTCCTCTACTCCACCTGTGACC	12780
Query	12781	TCAGTTTTCTTGTCTGAGACCTCTGGCCTGGGGAAGACCACAGACATGTCGAGGATAAGC	12840
Sbjct	12781	 TCAGTTTTCTTGTCTGAGACCTCTGGCCTGGGGAAGACCACAGACATGTCGAGGATAAGC	12840
Query	12841	TTGGAACCTGGCACAAGTTTACCTCCCAATTTGAGCAGTACAGCAGGTGAGGC GTTATCC	12900
Sbjct	12841	 TTGGAACCTGGCACAAGTTTACCTCCCAATTTGAGCAGTACAGCAGGTGAGGC GTTATCC	12900
Query	12901	ACTTATGAAGCCTCCAGAGATACAAAGGCAATTCATCATTCTGCAGACACAGCAGTGACG	12960
Sbjct	12901	 ACTTATGAAGCCTCCAGAGATACAAAGGCAATTCATCATTCTGCAGACACAGCAGTGACG	12960
Query	12961	AATATGGAGGCAACCAGTTCTGAATATTCTCCTATCCCAGGCCATACAAAGCCATCCAAA	13020
Sbjct	12961	 AATATGGAGGCAACCAGTTCTGAATATTCTCCTATCCCAGGCCATACAAAGCCATCCAAA	13020
Query	13021	GCCACATCTCCATTGGTTACCTCCCACATCATGGGGGACATCACTTCTTCCACATCAGTA	13080
Sbjct	13021	 GCCACATCTCCATTGGTTACCTCCCACATCATGGGGGACATCACTTCTTCCACATCAGTA	13080
Query	13081	TTTGGCTCCTCCGAGACCACAGAGATTGAGACAGTGTCTCTGTGAACCAGGGACTTCAG	13140
Sbjct	13081	 TTTGGCTCCTCCGAGACCACAGAGATTGAGACAGTGTCTCTGTGAACCAGGGACTTCAG	13140

Query	13141	GAGAGAAGCACATCCCAGGTGGCCAGCTCTGCTACAGAGACAAGCACTGTCATTACCCAT	13200
Sbjct	13141	GAGAGAAGCACATCCCAGGTGGCCAGCTCTGCTACAGAGACAAGCACTGTCATTACCCAT	13200
Query	13201	GTGTCTAGTGGTGATGCTACTACTCATGTCACCAAGACACAAGCCACTTTCTCTAGCGGA	13260
Sbjct	13201	GTGTCTAGTGGTGATGCTACTACTCATGTCACCAAGACACAAGCCACTTTCTCTAGCGGA	13260
Query	13261	ACATCCATCTCAAGCCCTCATCAGTTTATAACTTCTACCAACACATTTACAGATGTGAGC	13320
Sbjct	13261	ACATCCATCTCAAGCCCTCATCAGTTTATAACTTCTACCAACACATTTACAGATGTGAGC	13320
Query	13321	ACCAACCCCTCCACCTCTCTGATAATGACAGAATCTTCAGGAGTGACCATCACCACCCAA	13380
Sbjct	13321	ACCAACCCCTCCACCTCTCTGATAATGACAGAATCTTCAGGAGTGACCATCACCACCCAA	13380
Query	13381	ACAGGTCCTACTGGAGCTGCAACACAGGGTCCATATCTCTTGACACATCAACCATGCCT	13440
Sbjct	13381	ACAGGTCCTACTGGAGCTGCAACACAGGGTCCATATCTCTTGACACATCAACCATGCCT	13440
Query	13441	TACTTGACAGAGACTCCATTAGCTGTGACTCCAGATTTTATGCAATCAGAGAAGACCACT	13500
Sbjct	13441	TACTTGACAGAGACTCCATTAGCTGTGACTCCAGATTTTATGCAATCAGAGAAGACCACT	13500
Query	13501	CTCATAAGCAAAGGTCCCAAGGATGTGACCTGGACAAGCCCTCCCTCTGTGGCAGAAACC	13560
Sbjct	13501	CTCATAAGCAAAGGTCCCAAGGATGTGACCTGGACAAGCCCTCCCTCTGTGGCAGAAACC	13560
Query	13561	AGCTATCCCTCTTCCCTGACACCTTTCTTGGTCACAACCATACCTCCTGCCACTTCCACG	13620
Sbjct	13561	AGCTATCCCTCTTCCCTGACACCTTTCTTGGTCACAACCATACCTCCTGCCACTTCCACG	13620
Query	13621	TTACAAGGGCAACATACATCCTCTCCTGTTTCTGCGACTTCAGTTCTTACCTCTGGACTG	13680
Sbjct	13621	TTACAAGGGCAACATACATCCTCTCCTGTTTCTGCGACTTCAGTTCTTACCTCTGGACTG	13680
Query	13681	GTGAAGACCACAGATATGTTGAACACAAGCATGGAACCTGTGACCAATTACCTCAAAAT	13740
Sbjct	13681	GTGAAGACCACAGATATGTTGAACACAAGCATGGAACCTGTGACCAATTACCTCAAAAT	13740
Query	13741	TTGAACAATCCATCAAATGAGATACTGGCCACTTTGGCAGCCACCACAGATATAGAGACT	13800
Sbjct	13741	TTGAACAATCCATCAAATGAGATACTGGCCACTTTGGCAGCCACCACAGATATAGAGACT	13800
Query	13801	ATTCATCCTTCCATAAAACAAAGCAGTGACCAATATGGGGACTGCCAGTTCAGCACATGTA	13860
Sbjct	13801	ATTCATCCTTCCATAAAACAAAGCAGTGACCAATATGGGGACTGCCAGTTCAGCACATGTA	13860
Query	13861	CTGCATTCCACTCTCCCAGTCAGCTCAGAACCATCTACAGCCACATCTCCAATGGTTCCT	13920
Sbjct	13861	CTGCATTCCACTCTCCCAGTCAGCTCAGAACCATCTACAGCCACATCTCCAATGGTTCCT	13920
Query	13921	GCCTCCAGCATGGGGGACGCTCTTGCTTCTATATCAATACCTGGTTCTGAGACCACAGAC	13980
Sbjct	13921	GCCTCCAGCATGGGGGACGCTCTTGCTTCTATATCAATACCTGGTTCTGAGACCACAGAC	13980
Query	13981	ATTGAGGGAGAGCCAACATCCTCCCTGACTGCTGGACGAAAAGAGAACAGCACCCCTCCAG	14040
Sbjct	13981	ATTGAGGGAGAGCCAACATCCTCCCTGACTGCTGGACGAAAAGAGAACAGCACCCCTCCAG	14040
Query	14041	GAGATGAACTCAACTACAGAGTCAAACATCATCCTCTCCAATGTGTCTGTGGGGGCTATT	14100
Sbjct	14041	GAGATGAACTCAACTACAGAGTCAAACATCATCCTCTCCAATGTGTCTGTGGGGGCTATT	14100
Query	14101	ACTGAAGCCACAAAATGGAAGTCCCCTCTTTTGATGCAACATTACATACCAACTCCTGCT	14160

Sbjct	14101	 ACTGAAGCCACAAAAATGGAAGTCCCCTCTTTTGATGCAACATTTCATACCAACTCCTGCT	14160
Query	14161	CAGTCAACAAAGTTCCCAGATATTTTCTCAGTAGCCAGCAGTAGACTTTCAAACCTCTCCT	14220
Sbjct	14161	 CAGTCAACAAAGTTCCCAGATATTTTCTCAGTAGCCAGCAGTAGACTTTCAAACCTCTCCT	14220
Query	14221	CCCATGACAATATCTACCCACATGACCACCACCCAGACAGGGTCTTCTGGAGCTACATCA	14280
Sbjct	14221	 CCCATGACAATATCTACCCACATGACCACCACCCAGACAGGGTCTTCTGGAGCTACATCA	14280
Query	14281	AAGATTCCACTTGCCCTTAGACACATCAACCTTGGAACCTCAGCAGGGACTCCATCAGTG	14340
Sbjct	14281	 AAGATTCCACTTGCCCTTAGACACATCAACCTTGGAACCTCAGCAGGGACTCCATCAGTG	14340
Query	14341	GTGACTGAGGGGTTTGCCCACTCAAAAATAAACCCTGCAATGAACAATGATGTCAAGGAC	14400
Sbjct	14341	 GTGACTGAGGGGTTTGCCCACTCAAAAATAAACCCTGCAATGAACAATGATGTCAAGGAC	14400
Query	14401	GTGTCACAGACAAACCCTCCCTTTTCAGGATGAAGCCAGCTCTCCCTCTTCTCAAGCACCT	14460
Sbjct	14401	 GTGTCACAGACAAACCCTCCCTTTTCAGGATGAAGCCAGCTCTCCCTCTTCTCAAGCACCT	14460
Query	14461	GTCCTTGTCACAACCTTACCTTCTTCTGTTGCTTTCACACCGCAATGGCACAGTACCTCC	14520
Sbjct	14461	 GTCCTTGTCACAACCTTACCTTCTTCTGTTGCTTTCACACCGCAATGGCACAGTACCTCC	14520
Query	14521	TCTCCTGTTTCTATGTCCTCAGTTCTTACTTCTTCACTGGTAAAGACCGCAGGCAAGGTG	14580
Sbjct	14521	 TCTCCTGTTTCTATGTCCTCAGTTCTTACTTCTTCACTGGTAAAGACCGCAGGCAAGGTG	14580
Query	14581	GATACAAGCTTAGAAACAGTGACCAGTTACCTCAAAGTATGAGCAACACTTTGGATGAC	14640
Sbjct	14581	 GATACAAGCTTAGAAACAGTGACCAGTTACCTCAAAGTATGAGCAACACTTTGGATGAC	14640
Query	14641	ATATCGGTCACTTCAGCAGCCACCACAGATATAGAGACAACGCATCCTTCCATAAACACA	14700
Sbjct	14641	 ATATCGGTCACTTCAGCAGCCACCACAGATATAGAGACAACGCATCCTTCCATAAACACA	14700
Query	14701	GTAGTTACCAATGTGGGGACCACCGGTTCAGCATTTGAATCACATTCTACTGTCTCAGCT	14760
Sbjct	14701	 GTAGTTACCAATGTGGGGACCACCGGTTCAGCATTTGAATCACATTCTACTGTCTCAGCT	14760
Query	14761	TACCCAGAGCCATCTAAAGTCACATCTCCAAATGTTACCACCTCCACCATGGAAGACACC	14820
Sbjct	14761	 TACCCAGAGCCATCTAAAGTCACATCTCCAAATGTTACCACCTCCACCATGGAAGACACC	14820
Query	14821	ACAATTTCCCGATCAATACCTAAATCCTCTAAGACTACAAGAACTGAGACTGAGACAACT	14880
Sbjct	14821	 ACAATTTCCCGATCAATACCTAAATCCTCTAAGACTACAAGAACTGAGACTGAGACAACT	14880
Query	14881	TCCTCCCTGACTCCTAAACTGAGGGAGACCAGCATCTCCAGGAGATCACCTCGTCCACA	14940
Sbjct	14881	 TCCTCCCTGACTCCTAAACTGAGGGAGACCAGCATCTCCAGGAGATCACCTCGTCCACA	14940
Query	14941	GAGACAAGCACTGTTCCCTTACAAAGAGCTCACTGGTGCCACTACCGAGGTATCCAGGACA	15000
Sbjct	14941	 GAGACAAGCACTGTTCCCTTACAAAGAGCTCACTGGTGCCACTACCGAGGTATCCAGGACA	15000
Query	15001	GATGTCACCTTCCTCTAGCAGTACATCCTTCCCTGGCCCTGATCAGTCCACAGTGTCATA	15060
Sbjct	15001	 GATGTCACCTTCCTCTAGCAGTACATCCTTCCCTGGCCCTGATCAGTCCACAGTGTCATA	15060
Query	15061	GACATCTCCACAGAAACCAACACCAGGCTGTCTACCTCCCCAATAATGACAGAATCTGCA	15120
Sbjct	15061	 GACATCTCCACAGAAACCAACACCAGGCTGTCTACCTCCCCAATAATGACAGAATCTGCA	15120

Query	15121	GAAATAACCATCACCACCCAAACAGGTCCTCATGGGGCTACATCACAGGATACTTTTACC	15180
Sbjct	15121	GAAATAACCATCACCACCCAAACAGGTCCTCATGGGGCTACATCACAGGATACTTTTACC	15180
Query	15181	ATGGACCCATCAAATACAACCCCCCAGGCAGGGATCCACTCAGCTATGACTCATGGATTT	15240
Sbjct	15181	ATGGACCCATCAAATACAACCCCCCAGGCAGGGATCCACTCAGCTATGACTCATGGATTT	15240
Query	15241	TCACAATTGGATGTGACCACTCTTATGAGCAGAATTCCACAGGATGTATCATGGACAAGT	15300
Sbjct	15241	TCACAATTGGATGTGACCACTCTTATGAGCAGAATTCCACAGGATGTATCATGGACAAGT	15300
Query	15301	CCTCCCTCTGTGGATAAAACCAGCTCCCCCTCTTCCTTTCTGTCTCACCTGCAATGACC	15360
Sbjct	15301	CCTCCCTCTGTGGATAAAACCAGCTCCCCCTCTTCCTTTCTGTCTCACCTGCAATGACC	15360
Query	15361	ACACCTTCCCTGATTTCTTCTACCTTACCAGAGGATAAGCTCTCCTCTCCTATGACTTCA	15420
Sbjct	15361	ACACCTTCCCTGATTTCTTCTACCTTACCAGAGGATAAGCTCTCCTCTCCTATGACTTCA	15420
Query	15421	CTTCTCACCTCTGGCCTAGTGAAGATTACAGACATATTACGTACACGCTTGGAACCTGTG	15480
Sbjct	15421	CTTCTCACCTCTGGCCTAGTGAAGATTACAGACATATTACGTACACGCTTGGAACCTGTG	15480
Query	15481	ACCAGCTCACTTCCAAATTTTCCAGCAGCACCTCAGATAAGATACTGGCCACTTCTAAAGAC	15540
Sbjct	15481	ACCAGCTCACTTCCAAATTTTCCAGCAGCACCTCAGATAAGATACTGGCCACTTCTAAAGAC	15540
Query	15541	AGTAAAGACACAAAGGAAATTTTTCCTTCTATAAACACAGAAGAGACCAATGTGAAAGCC	15600
Sbjct	15541	AGTAAAGACACAAAGGAAATTTTTCCTTCTATAAACACAGAAGAGACCAATGTGAAAGCC	15600
Query	15601	AACAACCTCTGGACATGAATCCCATTTCCCTGCACTGGCTGACTCAGAGACACCCAAAGCC	15660
Sbjct	15601	AACAACCTCTGGACATGAATCCCATTTCCCTGCACTGGCTGACTCAGAGACACCCAAAGCC	15660
Query	15661	ACAACCTCAAATGGTTATCACCACCACTGTGGGAGATCCAGCTCCTTCCACATCAATGCCA	15720
Sbjct	15661	ACAACCTCAAATGGTTATCACCACCACTGTGGGAGATCCAGCTCCTTCCACATCAATGCCA	15720
Query	15721	GTGCATGGTTTCCTCTGAGACTACAAACATTAAGAGAGAGCCAACATATTTCTTGACTCCT	15780
Sbjct	15721	GTGCATGGTTTCCTCTGAGACTACAAACATTAAGAGAGAGCCAACATATTTCTTGACTCCT	15780
Query	15781	AGACTGAGAGAGACCAGTACCTCTCAGGAGTCCAGCTTTCCACGGACACAAGTTTCTA	15840
Sbjct	15781	AGACTGAGAGAGACCAGTACCTCTCAGGAGTCCAGCTTTCCACGGACACAAGTTTCTA	15840
Query	15841	CTTTCCAAAGTCCCCACTGGTACTATTACTGAGGTCTCCAGTACAGGGGTCAACTCTTCT	15900
Sbjct	15841	CTTTCCAAAGTCCCCACTGGTACTATTACTGAGGTCTCCAGTACAGGGGTCAACTCTTCT	15900
Query	15901	AGCAAAATTTCCACCCCAGACCATGATAAGTCCACAGTGCCACCTGACACCTTCACAGGA	15960
Sbjct	15901	AGCAAAATTTCCACCCCAGACCATGATAAGTCCACAGTGCCACCTGACACCTTCACAGGA	15960
Query	15961	GAGATCCCCAGGGTCTTCACCTCCTCTATTAAGACAAAATCTGCAGAAATGACGATCACC	16020
Sbjct	15961	GAGATCCCCAGGGTCTTCACCTCCTCTATTAAGACAAAATCTGCAGAAATGACGATCACC	16020
Query	16021	ACCCAAGCAAGTCCTCCTGAGTCTGCATCGCACAGTACCCTTCCCTTGGACACATCAACC	16080
Sbjct	16021	ACCCAAGCAAGTCCTCCTGAGTCTGCATCGCACAGTACCCTTCCCTTGGACACATCAACC	16080
Query	16081	ACACTTTCCAGGGAGGGACTCATTTCAACTGTGACTCAGGGATTCCCATACTCAGAGGTG	16140

Sbjct	16081	 ACACTTTCCCAGGGAGGGACTCATTCAACTGTGACTCAGGGATTCCCATACTCAGAGGTG	16140
Query	16141	ACCACTCTCATGGGCATGGGTCTGGGAATGTGTCATGGATGACAACTCCCCCTGTGGAA	16200
Sbjct	16141	 ACCACTCTCATGGGCATGGGTCTGGGAATGTGTCATGGATGACAACTCCCCCTGTGGAA	16200
Query	16201	GAAACCAGCTCTGTGTCTTCCCTGATGTCTTCACCTGCCATGACATCCCCTTCTCCTGTT	16260
Sbjct	16201	 GAAACCAGCTCTGTGTCTTCCCTGATGTCTTCACCTGCCATGACATCCCCTTCTCCTGTT	16260
Query	16261	TCCTCCACATCACCACAGAGCATCCCCCTCTCTCTCTTCTGTGACTGCACCTTCCTACT	16320
Sbjct	16261	 TCCTCCACATCACCACAGAGCATCCCCCTCTCTCTCTTCTGTGACTGCACCTTCCTACT	16320
Query	16321	TCTGTTCTGGTGACAACCACAGATGTGTTGGGCACAACAAGCCCAGAGTCTGTAACCAGT	16380
Sbjct	16321	 TCTGTTCTGGTGACAACCACAGATGTGTTGGGCACAACAAGCCCAGAGTCTGTAACCAGT	16380
Query	16381	TCACCTCCAAATTTGAGCAGCATCACTCATGAGAGACCGGCCACTTACAAAGACACTGCA	16440
Sbjct	16381	 TCACCTCCAAATTTGAGCAGCATCACTCATGAGAGACCGGCCACTTACAAAGACACTGCA	16440
Query	16441	CACACAGAAGCCGCCATGCATCATTCCACAAACACCGCAGTGACCAATGTAGGGACTTCC	16500
Sbjct	16441	 CACACAGAAGCCGCCATGCATCATTCCACAAACACCGCAGTGACCAATGTAGGGACTTCC	16500
Query	16501	GGGTCTGGACATAAATCACAATCCTCTGTCTAGCTGACTCAGAGACATCGAAAGCCACA	16560
Sbjct	16501	 GGGTCTGGACATAAATCACAATCCTCTGTCTAGCTGACTCAGAGACATCGAAAGCCACA	16560
Query	16561	CCTCTGATGAGTACCACCTCCACCCTGGGGGACACAAGTGTTTCCACATCAACTCCTAAT	16620
Sbjct	16561	 CCTCTGATGAGTACCACCTCCACCCTGGGGGACACAAGTGTTTCCACATCAACTCCTAAT	16620
Query	16621	ATCTCTCAGACTAACCAAATTCAAACAGAGCCAACAGCATCCCTGAGCCCTAGACTGAGG	16680
Sbjct	16621	 ATCTCTCAGACTAACCAAATTCAAACAGAGCCAACAGCATCCCTGAGCCCTAGACTGAGG	16680
Query	16681	GAGAGCAGCACGTCTGAGAAGACCAGCTCAACAACAGAGACAAATACTGCCTTTTCTTAT	16740
Sbjct	16681	 GAGAGCAGCACGTCTGAGAAGACCAGCTCAACAACAGAGACAAATACTGCCTTTTCTTAT	16740
Query	16741	GTGCCCACAGGTGCTATTACTCAGGCCTCCAGAACAGAAATCTCCTCTAGCAGAACATCC	16800
Sbjct	16741	 GTGCCCACAGGTGCTATTACTCAGGCCTCCAGAACAGAAATCTCCTCTAGCAGAACATCC	16800
Query	16801	ATCTCAGACCTTGATCGGCCACAATAGCACCCGACATCTCCACAGGAATGATCACCAGG	16860
Sbjct	16801	 ATCTCAGACCTTGATCGGCCACAATAGCACCCGACATCTCCACAGGAATGATCACCAGG	16860
Query	16861	CTCTTCACCTCCCCCATCATGACAAAATCTGCAGAAATGACCGTCACCACTCAAACAACT	16920
Sbjct	16861	 CTCTTCACCTCCCCCATCATGACAAAATCTGCAGAAATGACCGTCACCACTCAAACAACT	16920
Query	16921	ACTCCTGGGGCTACATCACAGGGTATCCTTCCTTGGGACACATCAACCACACTTTTCCAG	16980
Sbjct	16921	 ACTCCTGGGGCTACATCACAGGGTATCCTTCCTTGGGACACATCAACCACACTTTTCCAG	16980
Query	16981	GGAGGGACTCATTCAACCGTGTCTCAGGGATTCCCACACTCAGAGATAACCACTCTTCGG	17040
Sbjct	16981	 GGAGGGACTCATTCAACCGTGTCTCAGGGATTCCCACACTCAGAGATAACCACTCTTCGG	17040
Query	17041	AGCAGAACCCTGGAGATGTGTGTCATGGATGACAACTCCCCCTGTGGAAGAAACCAGCTCT	17100
Sbjct	17041	 AGCAGAACCCTGGAGATGTGTGTCATGGATGACAACTCCCCCTGTGGAAGAAACCAGCTCT	17100



Query	17101	GGGTTTTCCCTGATGTCACCTTCCATGACATCCCCTTCTCCTGTTTCCTCCACATCACCA	17160
Sbjct	17101	GGGTTTTCCCTGATGTCACCTTCCATGACATCCCCTTCTCCTGTTTCCTCCACATCACCA	17160
Query	17161	GAGAGCATCCCCCTCCTCTCCTCTCCCTGTGACTGCACTTCTTACTTCTGTTCTGGTGACA	17220
Sbjct	17161	GAGAGCATCCCCCTCCTCTCCTCTCCCTGTGACTGCACTTCTTACTTCTGTTCTGGTGACA	17220
Query	17221	ACCACCAATGTATTGGGCGACAACAAGCCCAGAGACCGTAACGAGTTCACCTCCAAATTTA	17280
Sbjct	17221	ACCACCAATGTATTGGGCGACAACAAGCCCAGAGACCGTAACGAGTTCACCTCCAAATTTA	17280
Query	17281	AGCAGCCCCACACAGGAGAGACTGACCACTTACAAAGACACTGCGCACACAGAAGCCATG	17340
Sbjct	17281	AGCAGCCCCACACAGGAGAGACTGACCACTTACAAAGACACTGCGCACACAGAAGCCATG	17340
Query	17341	CATGCTTCCATGCATACAAACACTGCAGTGGCCAACGTCGGGACCTCCATTTCTGGACAT	17400
Sbjct	17341	CATGCTTCCATGCATACAAACACTGCAGTGGCCAACGTCGGGACCTCCATTTCTGGACAT	17400
Query	17401	GAATCACAACTTTCTGTCCCAGCTGATTACACACATCCAAAGCCACATCTCCAATGGGT	17460
Sbjct	17401	GAATCACAACTTTCTGTCCCAGCTGATTACACACATCCAAAGCCACATCTCCAATGGGT	17460
Query	17461	ATCACCTTCGCCATGGGGGATACAAGTGTCTTCTACATCAACTCCTGCCTTCTTTGAGACT	17520
Sbjct	17461	ATCACCTTCGCCATGGGGGATACAAGTGTCTTCTACATCAACTCCTGCCTTCTTTGAGACT	17520
Query	17521	AGAATTTCAGACTGAATCAACATCCTCTTTGATTCTGGATTAAGGGACACCAGGACGTCT	17580
Sbjct	17521	AGAATTTCAGACTGAATCAACATCCTCTTTGATTCTGGATTAAGGGACACCAGGACGTCT	17580
Query	17581	GAGGAGATCAACACTGTGACAGAGACCAGCACTGTCTTTTTCAGAAAGTGCCCACTACTACT	17640
Sbjct	17581	GAGGAGATCAACACTGTGACAGAGACCAGCACTGTCTTTTTCAGAAAGTGCCCACTACTACT	17640
Query	17641	ACTACTGAGGTCTCCAGGACAGAAGTTATCACTTCCAGCAGAACAACCATCTCAGGGCCT	17700
Sbjct	17641	ACTACTGAGGTCTCCAGGACAGAAGTTATCACTTCCAGCAGAACAACCATCTCAGGGCCT	17700
Query	17701	GATCATTCCAAAATGTCACCCTACATCTCCACAGAAACCATCACCAGGCTCTCCACTTTT	17760
Sbjct	17701	GATCATTCCAAAATGTCACCCTACATCTCCACAGAAACCATCACCAGGCTCTCCACTTTT	17760
Query	17761	CCTTTTGTAAACAGGATCCACAGAAATGGCCATCACCAACCAACAGGTCTATAGGGACT	17820
Sbjct	17761	CCTTTTGTAAACAGGATCCACAGAAATGGCCATCACCAACCAACAGGTCTATAGGGACT	17820
Query	17821	ATCTCACAGGCTACCCTTACCCTGGACACATCAAGCACAGCTTCTGGGAAGGGACTCAC	17880
Sbjct	17821	ATCTCACAGGCTACCCTTACCCTGGACACATCAAGCACAGCTTCTGGGAAGGGACTCAC	17880
Query	17881	TCACCTGTGACTCAGAGATTTCCACACTCAGAGGAGACCACTACTATGAGCAGAAGTACT	17940
Sbjct	17881	TCACCTGTGACTCAGAGATTTCCACACTCAGAGGAGACCACTACTATGAGCAGAAGTACT	17940
Query	17941	AAGGGCGTGTGATGGCAAAGCCCTCCCTCTGTGGAAGAAACCAGTTCTCCTTCTTCCCCA	18000
Sbjct	17941	AAGGGCGTGTGATGGCAAAGCCCTCCCTCTGTGGAAGAAACCAGTTCTCCTTCTTCCCCA	18000
Query	18001	GTGCCTTTACCTGCAATAACCTCACATTATCTCTTTATTCCGCAGTATCAGGAAGTAGC	18060
Sbjct	18001	GTGCCTTTACCTGCAATAACCTCACATTATCTCTTTATTCCGCAGTATCAGGAAGTAGC	18060
Query	18061	CCCACTTCTGCTCTCCCTGTGACTTCCCTTCTCACCTCTGGCAGGAGGAAGACCATAGAC	18120

Sbjct	18061	 CCCACTTCTGCTCTCCCTGTGACTTCCCTTCTCACCTCTGGCAGGAGGAAGACCATAGAC	18120
Query	18121	ATGTTGGACACACACTCAGAACTTGTGACCAGCTCCTTACCAAGTGCAAGTAGCTTCTCA	18180
Sbjct	18121	 ATGTTGGACACACACTCAGAACTTGTGACCAGCTCCTTACCAAGTGCAAGTAGCTTCTCA	18180
Query	18181	GGTGAGATACTCACTTCTGAAGCCTCCACAAATACAGAGACAATTCACTTTTCAGAGAAC	18240
Sbjct	18181	 GGTGAGATACTCACTTCTGAAGCCTCCACAAATACAGAGACAATTCACTTTTCAGAGAAC	18240
Query	18241	ACAGCAGAAACCAATATGGGGACCACCAATTCTATGCATAAACTACATTCTCTGTCTCA	18300
Sbjct	18241	 ACAGCAGAAACCAATATGGGGACCACCAATTCTATGCATAAACTACATTCTCTGTCTCA	18300
Query	18301	ATCCACTCCCAGCCATCCGGACACACACCTCCAAAGGTTACTGGATCTATGATGGAGGAC	18360
Sbjct	18301	 ATCCACTCCCAGCCATCCGGACACACACCTCCAAAGGTTACTGGATCTATGATGGAGGAC	18360
Query	18361	GCTATTGTTTCCACATCAACACCTGGTTCTCCTGAGACTAAAAATGTTGACAGAGACTCA	18420
Sbjct	18361	 GCTATTGTTTCCACATCAACACCTGGTTCTCCTGAGACTAAAAATGTTGACAGAGACTCA	18420
Query	18421	ACATCCCCTCTGACTCCTGAACTGAAAGAGGACAGCACCGCCCTGGTGATGAACTCAACT	18480
Sbjct	18421	 ACATCCCCTCTGACTCCTGAACTGAAAGAGGACAGCACCGCCCTGGTGATGAACTCAACT	18480
Query	18481	ACAGAGTCAAACACTGTTTTCTCCAGTGTGTCCCTGGATGCTGCTACTGAGGTCTCCAGG	18540
Sbjct	18481	 ACAGAGTCAAACACTGTTTTCTCCAGTGTGTCCCTGGATGCTGCTACTGAGGTCTCCAGG	18540
Query	18541	GCAGAAGTCACCTACTATGATCCTACATTGATGCCAGCTTCTGCTCAGTCAACAAAGTCC	18600
Sbjct	18541	 GCAGAAGTCACCTACTATGATCCTACATTGATGCCAGCTTCTGCTCAGTCAACAAAGTCC	18600
Query	18601	CCAGACATTTACCTGAAGCCAGCAGCAGTCATTCTAACTCTCCTCCCTTGACAATATCT	18660
Sbjct	18601	 CCAGACATTTACCTGAAGCCAGCAGCAGTCATTCTAACTCTCCTCCCTTGACAATATCT	18660
Query	18661	ACACACAAGACCATCGCCACACAAACAGGTCCTTCTGGGGTGACATCTCTTGGCCAAGTCC	18720
Sbjct	18661	 ACACACAAGACCATCGCCACACAAACAGGTCCTTCTGGGGTGACATCTCTTGGCCAAGTCC	18720
Query	18721	ACCCTGGACACATCAACCATAGCCACCTCAGCAGGAACTCCATCAGCCAGAACTCAGGAT	18780
Sbjct	18721	 ACCCTGGACACATCAACCATAGCCACCTCAGCAGGAACTCCATCAGCCAGAACTCAGGAT	18780
Query	18781	TTTGTAGATTGAGAAACAACAGTGTGATGAACAATGATCTCAATGATGTGTTGAAGACA	18840
Sbjct	18781	 TTTGTAGATTGAGAAACAACAGTGTGATGAACAATGATCTCAATGATGTGTTGAAGACA	18840
Query	18841	AGCCCTTTCTCTGCAGAAGAAGCCAACTCTCTCTTCTCAGGCACCTCTCCTTGTGACA	18900
Sbjct	18841	 AGCCCTTTCTCTGCAGAAGAAGCCAACTCTCTCTTCTCAGGCACCTCTCCTTGTGACA	18900
Query	18901	ACCTCACCTTCTCCTGTAACCTCCACATTGCAAGAGCACAGTACCTCCTCTCTTGTCTTCT	18960
Sbjct	18901	 ACCTCACCTTCTCCTGTAACCTCCACATTGCAAGAGCACAGTACCTCCTCTCTTGTCTTCT	18960
Query	18961	GTGACCTCAGTACCCACCCCTACACTGGCGAAGATCACAGACATGGACACAACTTAGAA	19020
Sbjct	18961	 GTGACCTCAGTACCCACCCCTACACTGGCGAAGATCACAGACATGGACACAACTTAGAA	19020
Query	19021	CCTGTGACTCGTTACCTCAAATTTAAGGAACACCTTGGCCACTTCAGAAGCCACCACA	19080
Sbjct	19021	 CCTGTGACTCGTTACCTCAAATTTAAGGAACACCTTGGCCACTTCAGAAGCCACCACA	19080

Query	19081	GATACACACACAATGCATCCTTCTATAAACACAGCAATGGCCAATGTGGGGACCACCAGT	19140
Sbjct	19081	GATACACACACAATGCATCCTTCTATAAACACAGCAATGGCCAATGTGGGGACCACCAGT	19140
Query	19141	TCACCAAATGAATTCTATTTTACTGTCTCACCTGACTCAGACCCATATAAAGCCACATCC	19200
Sbjct	19141	TCACCAAATGAATTCTATTTTACTGTCTCACCTGACTCAGACCCATATAAAGCCACATCC	19200
Query	19201	GCAGTAGTTATCACTTCCACCTCGGGGGACTCAATAGTTTCCACATCAATGCCTAGATCC	19260
Sbjct	19201	GCAGTAGTTATCACTTCCACCTCGGGGGACTCAATAGTTTCCACATCAATGCCTAGATCC	19260
Query	19261	TCTGCGATGAAAAAGATTGAGTCTGAGACAACCTTTCTCCCTGATATTTAGACTGAGGGAG	19320
Sbjct	19261	TCTGCGATGAAAAAGATTGAGTCTGAGACAACCTTTCTCCCTGATATTTAGACTGAGGGAG	19320
Query	19321	ACTAGCACCTCCCAGAAAATTGGCTCATCCTCAGACACAAGCACGGTCTTTGACAAAGCA	19380
Sbjct	19321	ACTAGCACCTCCCAGAAAATTGGCTCATCCTCAGACACAAGCACGGTCTTTGACAAAGCA	19380
Query	19381	TTCACTGCTGCTACTACTGAGGTCTCCAGAACAGAACTCACCTCCTCTAGCAGAACATCC	19440
Sbjct	19381	TTCACTGCTGCTACTACTGAGGTCTCCAGAACAGAACTCACCTCCTCTAGCAGAACATCC	19440
Query	19441	ATCCAAGGCACTGAAAAGCCCACAATGTCACCGGACACCTCCACAAGATCTGTCACCATG	19500
Sbjct	19441	ATCCAAGGCACTGAAAAGCCCACAATGTCACCGGACACCTCCACAAGATCTGTCACCATG	19500
Query	19501	CTTTCTACTTTTGCTGGCCTGACAAAATCCGAAGAAAGGACCATTGCCACCCAAACAGGT	19560
Sbjct	19501	CTTTCTACTTTTGCTGGCCTGACAAAATCCGAAGAAAGGACCATTGCCACCCAAACAGGT	19560
Query	19561	CCTCATAGGGCGACATCACAGGGTACCCTTACCTGGGACACATCAATCACAACCTCACAG	19620
Sbjct	19561	CCTCATAGGGCGACATCACAGGGTACCCTTACCTGGGACACATCAATCACAACCTCACAG	19620
Query	19621	GCAGGGACCCACTCAGCTATGACTCATGGATTTTACAATTAGATTTGTCCACTCTTACG	19680
Sbjct	19621	GCAGGGACCCACTCAGCTATGACTCATGGATTTTACAATTAGATTTGTCCACTCTTACG	19680
Query	19681	AGTAGAGTTCTGAGTACATATCAGGGACAAGCCCACCCTCTGTGGAAAAAACCAGCTCT	19740
Sbjct	19681	AGTAGAGTTCTGAGTACATATCAGGGACAAGCCCACCCTCTGTGGAAAAAACCAGCTCT	19740
Query	19741	TCCTCTTCCCTTCTGTCTTTACCAGCAATAACCTCACCGTCCCCTGTACCTACTACATTA	19800
Sbjct	19741	TCCTCTTCCCTTCTGTCTTTACCAGCAATAACCTCACCGTCCCCTGTACCTACTACATTA	19800
Query	19801	CCAGAAAGTAGGCCGTCTTCTCCTGTTTCATCTGACTTCACTCCCCACCTCTGGCCTAGTG	19860
Sbjct	19801	CCAGAAAGTAGGCCGTCTTCTCCTGTTTCATCTGACTTCACTCCCCACCTCTGGCCTAGTG	19860
Query	19861	AAGACCACAGATATGCTGGCATCTGTGGCCAGTTTACCTCCAACTTGGGCAGCACCTCA	19920
Sbjct	19861	AAGACCACAGATATGCTGGCATCTGTGGCCAGTTTACCTCCAACTTGGGCAGCACCTCA	19920
Query	19921	CATAAGATACCGACTACTTCAGAAGACATTAAAGATACAGAGAAAATGTATCCTTCCACA	19980
Sbjct	19921	CATAAGATACCGACTACTTCAGAAGACATTAAAGATACAGAGAAAATGTATCCTTCCACA	19980
Query	19981	AACATAGCAGTAACCAATGTGGGGACCACCCTTCTGAAAAGGAATCTTATTTCGTCTGTC	20040
Sbjct	19981	AACATAGCAGTAACCAATGTGGGGACCACCCTTCTGAAAAGGAATCTTATTTCGTCTGTC	20040
Query	20041	CCAGCCTACTCAGAACCACCCAAAGTCACCTCTCCAATGGTTACCTCTTTCAACATAAGG	20100

Sbjct	20041	 CCAGCCTACTCAGAACCACCCAAAGTCACCTCTCCAATGGTTACCTCTTTCAACATAAGG	20100
Query	20101	GACACCATTTGTTTCCACATCCATGCCTGGCTCCTCTGAGATTACAAGGATTGAGATGGAG	20160
Sbjct	20101	 GACACCATTTGTTTCCACATCCATGCCTGGCTCCTCTGAGATTACAAGGATTGAGATGGAG	20160
Query	20161	TCAACATTCTCCGTGGCTCATGGGCTGAAGGGAACCAGCACCTCCCAGGACCCCATCGTA	20220
Sbjct	20161	 TCAACATTCTCCGTGGCTCATGGGCTGAAGGGAACCAGCACCTCCCAGGACCCCATCGTA	20220
Query	20221	TCCACAGAGAAAAGTGCTGTCCTTCACAAGTTGACCACTGGTGCTACTGAGACCTCTAGG	20280
Sbjct	20221	 TCCACAGAGAAAAGTGCTGTCCTTCACAAGTTGACCACTGGTGCTACTGAGACCTCTAGG	20280
Query	20281	ACAGAAGTTGCCTCTTCTAGAAGAACATCCATTCCAGGCCCTGATCATTCCACAGAGTCA	20340
Sbjct	20281	 ACAGAAGTTGCCTCTTCTAGAAGAACATCCATTCCAGGCCCTGATCATTCCACAGAGTCA	20340
Query	20341	CCAGACATCTCCACTGAAGTGATCCCCAGCCTGCCTATCTCCCTTGGCATTACAGAATCT	20400
Sbjct	20341	 CCAGACATCTCCACTGAAGTGATCCCCAGCCTGCCTATCTCCCTTGGCATTACAGAATCT	20400
Query	20401	TCAAATATGACCATCATCACTCGAACAGGTCCTCCTCTTGGCTCTACATCACAGGGCACA	20460
Sbjct	20401	 TCAAATATGACCATCATCACTCGAACAGGTCCTCCTCTTGGCTCTACATCACAGGGCACA	20460
Query	20461	TTTACCTTGGACACACCAACTACATCCTCCAGGGCAGGAACACACTCGATGGCGACTCAG	20520
Sbjct	20461	 TTTACCTTGGACACACCAACTACATCCTCCAGGGCAGGAACACACTCGATGGCGACTCAG	20520
Query	20521	GAATTTCCACACTCAGAAATGACCACTGTCATGAACAAGGACCCTGAGATTCTATCATGG	20580
Sbjct	20521	 GAATTTCCACACTCAGAAATGACCACTGTCATGAACAAGGACCCTGAGATTCTATCATGG	20580
Query	20581	ACAATCCCTCCTTCTATAGAGAAAACCAGCTTCTCCTCTTCCCTGATGCCTTCACCAGCC	20640
Sbjct	20581	 ACAATCCCTCCTTCTATAGAGAAAACCAGCTTCTCCTCTTCCCTGATGCCTTCACCAGCC	20640
Query	20641	ATGACTTCACCTCCTGTTTCTCAACATTACCAAAGACCATTACACCACTCCTTCTCCT	20700
Sbjct	20641	 ATGACTTCACCTCCTGTTTCTCAACATTACCAAAGACCATTACACCACTCCTTCTCCT	20700
Query	20701	ATGACCTCACTGCTCACCCCTAGCCTAGTGATGACCACAGACACATTGGGCACAAGCCCA	20760
Sbjct	20701	 ATGACCTCACTGCTCACCCCTAGCCTAGTGATGACCACAGACACATTGGGCACAAGCCCA	20760
Query	20761	GAACCTACAACCAGTTCACCTCCAAATTTGAGCAGTACCTCACATGTGATACTGACAACA	20820
Sbjct	20761	 GAACCTACAACCAGTTCACCTCCAAATTTGAGCAGTACCTCACATGTGATACTGACAACA	20820
Query	20821	GATGAAGACACCACAGCTATAGAAGCCATGCATCCTTCCACAAGCACAGCAGCGACTAAT	20880
Sbjct	20821	 GATGAAGACACCACAGCTATAGAAGCCATGCATCCTTCCACAAGCACAGCAGCGACTAAT	20880
Query	20881	GTGGAAACCACCTGTTCTGGACATGGGTACAAATCCTCTGTCTTAAGTACTGACTCAGAAAAA	20940
Sbjct	20881	 GTGGAAACCACCTGTTCTGGACATGGGTACAAATCCTCTGTCTTAAGTACTGACTCAGAAAAA	20940
Query	20941	ACCAAGGCCACAGCTCCAATGGATACCACCTCCACCATGGGGCATACAACCTGTTTCCACA	21000
Sbjct	20941	 ACCAAGGCCACAGCTCCAATGGATACCACCTCCACCATGGGGCATACAACCTGTTTCCACA	21000
Query	21001	TCAATGTCTGTTTCTCTGAGACTACAAAAATTAAGAGAGAGTCAACATATTCTTGACT	21060
Sbjct	21001	 TCAATGTCTGTTTCTCTGAGACTACAAAAATTAAGAGAGAGTCAACATATTCTTGACT	21060

Query	21061	CCTGGACTGAGAGAGACCAGCATTTCCCAAAATGCCAGCTTTTCCACTGACACAAGTATT	21120
Sbjct	21061	CCTGGACTGAGAGAGACCAGCATTTCCCAAAATGCCAGCTTTTCCACTGACACAAGTATT	21120
Query	21121	GTTCTTTCAGAAAGTCCCCACTGGTACTACTGCTGAGGTCTCCAGGACAGAAGTCACCTCC	21180
Sbjct	21121	GTTCTTTCAGAAAGTCCCCACTGGTACTACTGCTGAGGTCTCCAGGACAGAAGTCACCTCC	21180
Query	21181	TCTGGTAGAACATCCATCCCTGGCCCTTCTCAGTCCACAGTTTTTGCCAGAAATATCCACA	21240
Sbjct	21181	TCTGGTAGAACATCCATCCCTGGCCCTTCTCAGTCCACAGTTTTTGCCAGAAATATCCACA	21240
Query	21241	AGAACAATGACAAGGCTCTTTGCCTCGCCACCATGACAGAATCAGCAGAAATGACCATC	21300
Sbjct	21241	AGAACAATGACAAGGCTCTTTGCCTCGCCACCATGACAGAATCAGCAGAAATGACCATC	21300
Query	21301	CCCACTCAAACAGGTCTTCTGGGTCTACCTCACAGGATACCCCTTACCTTGACACATCC	21360
Sbjct	21301	CCCACTCAAACAGGTCTTCTGGGTCTACCTCACAGGATACCCCTTACCTTGACACATCC	21360
Query	21361	ACCACAAAAGTCCCAGGCAAAGACTCATTTCAACTTTGACTCAGAGATTTCCACACTCAGAG	21420
Sbjct	21361	ACCACAAAAGTCCCAGGCAAAGACTCATTTCAACTTTGACTCAGAGATTTCCACACTCAGAG	21420
Query	21421	ATGACCACTCTCATGAGCAGAGGTCTGGAGATATGTCATGGCAAAGCTCTCCCTCTCTG	21480
Sbjct	21421	ATGACCACTCTCATGAGCAGAGGTCTGGAGATATGTCATGGCAAAGCTCTCCCTCTCTG	21480
Query	21481	GAAAAATCCCAGCTCTCTCCCTTCCCTGCTGTCTTTACCTGCCACAACCTCACCTCCTCCC	21540
Sbjct	21481	GAAAAATCCCAGCTCTCTCCCTTCCCTGCTGTCTTTACCTGCCACAACCTCACCTCCTCCC	21540
Query	21541	ATTTCTTCCACATTACCACTGACTATCTCCTCCTCTCCTCTTCTGACTTCACTTCTC	21600
Sbjct	21541	ATTTCTTCCACATTACCACTGACTATCTCCTCCTCTCCTCTTCTGACTTCACTTCTC	21600
Query	21601	ACCTCTAGCCCGGTAACGACCACAGACATGTTACACACAAGCCCAGAACTTGTAACCACT	21660
Sbjct	21601	ACCTCTAGCCCGGTAACGACCACAGACATGTTACACACAAGCCCAGAACTTGTAACCACT	21660
Query	21661	TCACCTCCAAAGCTGAGCCACACTTCAGATGAGAGACTGACCACTGGCAAGGACACCACA	21720
Sbjct	21661	TCACCTCCAAAGCTGAGCCACACTTCAGATGAGAGACTGACCACTGGCAAGGACACCACA	21720
Query	21721	AATACAGAAGCTGTGCATCCTTCCACAAACACAGCAGCGTCCAATGTGGAGATTCCCAGC	21780
Sbjct	21721	AATACAGAAGCTGTGCATCCTTCCACAAACACAGCAGCGTCCAATGTGGAGATTCCCAGC	21780
Query	21781	TTTGGACATGAATCCCTTCTCTGCTTAGCTGACTCAGAGACATCCAAAGCCACATCA	21840
Sbjct	21781	TTTGGACATGAATCCCTTCTCTGCTTAGCTGACTCAGAGACATCCAAAGCCACATCA	21840
Query	21841	CCAATGTTTATTACCTCCACCCAGGAGGATACAACCTGTTGCCATATCAACCCCTCACTTC	21900
Sbjct	21841	CCAATGTTTATTACCTCCACCCAGGAGGATACAACCTGTTGCCATATCAACCCCTCACTTC	21900
Query	21901	TTGGAGACTAGCAGAATTTCAGAAAAGAGTCAATTTCTCCCTGAGCCCTAAATTGAGGGAG	21960
Sbjct	21901	TTGGAGACTAGCAGAATTTCAGAAAAGAGTCAATTTCTCCCTGAGCCCTAAATTGAGGGAG	21960
Query	21961	ACAGGCAGTTCTGTGGAGACAAGCTCAGCCATAGAGACAAGTGCTGTCCTTTCTGAAGTG	22020
Sbjct	21961	ACAGGCAGTTCTGTGGAGACAAGCTCAGCCATAGAGACAAGTGCTGTCCTTTCTGAAGTG	22020
Query	22021	TCCATTGGTGCTACTACTGAGATCTCCAGGACAGAAGTCACCTCCTCTAGCAGAACATCC	22080

Sbjct	22021	 TCCATTGGTGTCTACTACTGAGATCTCCAGGACAGAAGTCACCTCCTCTAGCAGAACATCC	22080
Query	22081	ATCTCTGGTTCTGCTGAGTCCACAATGTTGCCAGAAATATCCACCACAAGAAAAATCATT	22140
Sbjct	22081	 ATCTCTGGTTCTGCTGAGTCCACAATGTTGCCAGAAATATCCACCACAAGAAAAATCATT	22140
Query	22141	AAGTTCCTACTTCCCCATCCTGGCAGAATCATCAGAAATGACCATCAAGACCCAAACA	22200
Sbjct	22141	 AAGTTCCTACTTCCCCATCCTGGCAGAATCATCAGAAATGACCATCAAGACCCAAACA	22200
Query	22201	AGTCCTCCTGGGTCTACATCAGAGAGTACCTTTACATTAGACACATCAACCACTCCCTCC	22260
Sbjct	22201	 AGTCCTCCTGGGTCTACATCAGAGAGTACCTTTACATTAGACACATCAACCACTCCCTCC	22260
Query	22261	TTGGTAATAACCCATTGCGACTATGACTCAGAGATTGCCACACTCAGAGATAACCACTCTT	22320
Sbjct	22261	 TTGGTAATAACCCATTGCGACTATGACTCAGAGATTGCCACACTCAGAGATAACCACTCTT	22320
Query	22321	GTGAGTAGAGGTGCTGGGGATGTGCCACGGCCCAGCTCTCTCCCTGTGGAAGAAACAAGC	22380
Sbjct	22321	 GTGAGTAGAGGTGCTGGGGATGTGCCACGGCCCAGCTCTCTCCCTGTGGAAGAAACAAGC	22380
Query	22381	CCTCCATCTTCCCAGCTGTCTTTATCTGCCATGATCTCACCTTCTCCTGTTTCTTCCACA	22440
Sbjct	22381	 CCTCCATCTTCCCAGCTGTCTTTATCTGCCATGATCTCACCTTCTCCTGTTTCTTCCACA	22440
Query	22441	TTACCAGCAAGTAGCCACTCCTCTTCTGCTTCTGTGACTTCACCTCTCACACCAGGCCAA	22500
Sbjct	22441	 TTACCAGCAAGTAGCCACTCCTCTTCTGCTTCTGTGACTTCACCTCTCACACCAGGCCAA	22500
Query	22501	GTGAAGACTACTGAGGTGTTGGACGCAAGTGCGAACCTGAAACCAGTTCACCTCCAAGT	22560
Sbjct	22501	 GTGAAGACTACTGAGGTGTTGGACGCAAGTGCGAACCTGAAACCAGTTCACCTCCAAGT	22560
Query	22561	TTGAGCAGCACCTCAGTTGAAATACTGGCCACCTCTGAAGTCACCACAGATACGGAGAAA	22620
Sbjct	22561	 TTGAGCAGCACCTCAGTTGAAATACTGGCCACCTCTGAAGTCACCACAGATACGGAGAAA	22620
Query	22621	ATTCATCCTTTCCCAAACACGGCAGTAACCAAAGTTGGAACCTCCAGTTCTGGACATGAA	22680
Sbjct	22621	 ATTCATCCTTTCCCAAACACGGCAGTAACCAAAGTTGGAACCTCCAGTTCTGGACATGAA	22680
Query	22681	TCCCCTTCCTCTGTCCTACCTGACTCAGAGACAACCAAAGCCACATCGGCAATGGGTACC	22740
Sbjct	22681	 TCCCCTTCCTCTGTCCTACCTGACTCAGAGACAACCAAAGCCACATCGGCAATGGGTACC	22740
Query	22741	ATCTCCATTATGGGGGATACAAGTGTCTTCTACATTAACTCCTGCCTTATCTAACACTAGG	22800
Sbjct	22741	 ATCTCCATTATGGGGGATACAAGTGTCTTCTACATTAACTCCTGCCTTATCTAACACTAGG	22800
Query	22801	AAAATTTCAGTCAGAGCCAGCTTCCTCACTGACCACCAGATTGAGGGAGACCAGCACCTCT	22860
Sbjct	22801	 AAAATTTCAGTCAGAGCCAGCTTCCTCACTGACCACCAGATTGAGGGAGACCAGCACCTCT	22860
Query	22861	GAAGAGACCAGCTTAGCCACAGAAGCAAACACTGTTCTTTCTAAAGTGTCCACTGGTGCT	22920
Sbjct	22861	 GAAGAGACCAGCTTAGCCACAGAAGCAAACACTGTTCTTTCTAAAGTGTCCACTGGTGCT	22920
Query	22921	ACTACTGAGGTCTCCAGGACAGAAGCCATCTCCTTTAGCAGAACATCCATGTCAGGCCCT	22980
Sbjct	22921	 ACTACTGAGGTCTCCAGGACAGAAGCCATCTCCTTTAGCAGAACATCCATGTCAGGCCCT	22980
Query	22981	GAGCAGTCCACAATGTCACAAGACATCTCCATAGGAACCATCCCAGGATTTCTGCCTCC	23040
Sbjct	22981	 GAGCAGTCCACAATGTCACAAGACATCTCCATAGGAACCATCCCAGGATTTCTGCCTCC	23040

Query	23041	TCTGTCCTGACAGAAATCTGCAAAAATGACCATCACAAACCCAAACAGGTCCTTCGGAGTCT	23100
Sbjct	23041	TCTGTCCTGACAGAAATCTGCAAAAATGACCATCACAAACCCAAACAGGTCCTTCGGAGTCT	23100
Query	23101	ACACTAGAAAAGTACCCTTAATTTGAACACAGCAACCACACCCTCTTGGGTGGAAACCCAC	23160
Sbjct	23101	ACACTAGAAAAGTACCCTTAATTTGAACACAGCAACCACACCCTCTTGGGTGGAAACCCAC	23160
Query	23161	TCTATAGTAATTCAGGGATTTCCACACCCAGAGATGACCACTTCCATGGGCAGAGGTCCT	23220
Sbjct	23161	TCTATAGTAATTCAGGGATTTCCACACCCAGAGATGACCACTTCCATGGGCAGAGGTCCT	23220
Query	23221	GGAGGTGTGTCATGGCCTAGCCCTCCCTTTGTGAAAGAAACCAGCCCTCCATCCTCCCCG	23280
Sbjct	23221	GGAGGTGTGTCATGGCCTAGCCCTCCCTTTGTGAAAGAAACCAGCCCTCCATCCTCCCCG	23280
Query	23281	CTGTCTTTACCTGCCGTGACCTCACCTCATCCTGTTTCCACCACATTCTTAGCACATATn	23340
Sbjct	23281	CTGTCTTTACCTGCCGTGACCTCACCTCATCCTGTTTCCACCACATTCTTAGCACATATC	23340
Query	23341	nnnnnnTCTCCCTTCCTGTGACTTCACTTCTCACCTCTGGCCCGGCGACAACCACAGAT	23400
Sbjct	23341	CCCCCTCTCCCTTCCTGTGACTTCACTTCTCACCTCTGGCCCGGCGACAACCACAGAT	23400
Query	23401	ATCTTGGGTACAAGCACAGAACCTGGAACCAGTTCATCTTCAAGTTTGAGCACCACCTCC	23460
Sbjct	23401	ATCTTGGGTACAAGCACAGAACCTGGAACCAGTTCATCTTCAAGTTTGAGCACCACCTCC	23460
Query	23461	CATGAGAGACTGACCACTTACAAAGACACTGCACATACAGAAGCCGTGCATCCTTCCACA	23520
Sbjct	23461	CATGAGAGACTGACCACTTACAAAGACACTGCACATACAGAAGCCGTGCATCCTTCCACA	23520
Query	23521	AACACAGGAGGGACCAATGTGGCAACCACCAGCTCTGGATATAAATCACAGTCCTCTGTC	23580
Sbjct	23521	AACACAGGAGGGACCAATGTGGCAACCACCAGCTCTGGATATAAATCACAGTCCTCTGTC	23580
Query	23581	CTAGCTGACTCATCTCCAATGTGTACCACCTCCACCATGGGGGATACAAGTGTTCTCACA	23640
Sbjct	23581	CTAGCTGACTCATCTCCAATGTGTACCACCTCCACCATGGGGGATACAAGTGTTCTCACA	23640
Query	23641	TCAACTCCTGCCTTCCTTGAGACTAGGAGGATTGAGACAGAGCTAGCTTCCTCCCTGACC	23700
Sbjct	23641	TCAACTCCTGCCTTCCTTGAGACTAGGAGGATTGAGACAGAGCTAGCTTCCTCCCTGACC	23700
Query	23701	CCTGGATTGAGGGAGTCCAGTGGCTCTGAAGGGACCAGCTCAGGCACCAAGATGAGCACT	23760
Sbjct	23701	CCTGGATTGAGGGAGTCCAGTGGCTCTGAAGGGACCAGCTCAGGCACCAAGATGAGCACT	23760
Query	23761	GTCCTCTCTAAAGTGCCCACTGGTGCTACTACTGAGATCTCCAAGGAAGACGTACCTCC	23820
Sbjct	23761	GTCCTCTCTAAAGTGCCCACTGGTGCTACTACTGAGATCTCCAAGGAAGACGTACCTCC	23820
Query	23821	ATCCCAGGTCCCGCTCAATCCACAATATCACCAGACATCTCCACAAGAACCGTCAGCTGG	23880
Sbjct	23821	ATCCCAGGTCCCGCTCAATCCACAATATCACCAGACATCTCCACAAGAACCGTCAGCTGG	23880
Query	23881	TTCTCTACATCCCCTGTCATGACAGAAATCAGCAGAAATAACCATGAACACCCATACAAGT	23940
Sbjct	23881	TTCTCTACATCCCCTGTCATGACAGAAATCAGCAGAAATAACCATGAACACCCATACAAGT	23940
Query	23941	CCTTTAGGGGCCACAACACAAGGCACCAGTACTTTGGCCACGTCAAGCACAACTCTTTG	24000
Sbjct	23941	CCTTTAGGGGCCACAACACAAGGCACCAGTACTTTGGCCACGTCAAGCACAACTCTTTG	24000
Query	24001	ACAATGACACACTCAACTATATCTCAAGGATTTTCACACTCACAGATGAGCACTCTTATG	24060

Sbjct	24001	 ACAATGACACACTCAACTATATCTCAAGGATTTTCACACTCACAGATGAGCACTCTTATG	24060
Query	24061	AGGAGGGGTCTTGAGGATGTATCATGGATGAGCCCTCCCCTTCTGGAAAAAACTAGACCT	24120
Sbjct	24061	 AGGAGGGGTCTTGAGGATGTATCATGGATGAGCCCTCCCCTTCTGGAAAAAACTAGACCT	24120
Query	24121	TCCTTTTCTCTGATGTCTTCACCAGCCACAACCTTCACCTTCTCCTGTTTCCTCCACATTA	24180
Sbjct	24121	 TCCTTTTCTCTGATGTCTTCACCAGCCACAACCTTCACCTTCTCCTGTTTCCTCCACATTA	24180
Query	24181	CCAGAGAGCATCTCTTCTCTCTCTTCTGTGACTTCACTCCTCACGTCTGGCTTGGCA	24240
Sbjct	24181	 CCAGAGAGCATCTCTTCTCTCTCTTCTGTGACTTCACTCCTCACGTCTGGCTTGGCA	24240
Query	24241	AAAACCTACAGATATGTTGCACAAAAGCTCAGAACCTGTAACCAACTCACCTGCAAATTTG	24300
Sbjct	24241	 AAAACCTACAGATATGTTGCACAAAAGCTCAGAACCTGTAACCAACTCACCTGCAAATTTG	24300
Query	24301	AGCAGCACCTCAGTTGAAATACTGGCCACCTCTGAAGTCACCACAGATACAGAGAAAAC	24360
Sbjct	24301	 AGCAGCACCTCAGTTGAAATACTGGCCACCTCTGAAGTCACCACAGATACAGAGAAAAC	24360
Query	24361	CATCCTTCTTCAAACAGAACAGTGACCGATGTGGGGACCTCCAGTTCTGGACATGAATCC	24420
Sbjct	24361	 CATCCTTCTTCAAACAGAACAGTGACCGATGTGGGGACCTCCAGTTCTGGACATGAATCC	24420
Query	24421	ACTTCCTTTGTCTAGCTGACTCACAGACATCCAAAGTCACATCTCCAATGGTTATTACC	24480
Sbjct	24421	 ACTTCCTTTGTCTAGCTGACTCACAGACATCCAAAGTCACATCTCCAATGGTTATTACC	24480
Query	24481	TCCACCATGGAGGATACGAGTGTCTCCACATCAACTCCTGGCTTTTTTGAGACTAGCAGA	24540
Sbjct	24481	 TCCACCATGGAGGATACGAGTGTCTCCACATCAACTCCTGGCTTTTTTGAGACTAGCAGA	24540
Query	24541	ATTCAGACAGAACCAACATCCTCCCTGACCCTTGGACTGAGAAAGACCAGCAGCTCTGAG	24600
Sbjct	24541	 ATTCAGACAGAACCAACATCCTCCCTGACCCTTGGACTGAGAAAGACCAGCAGCTCTGAG	24600
Query	24601	GGGACCAGCTTAGCCACAGAGATGAGCACTGTCCTTTCTGGAGTGCCCACTGGTGCCACT	24660
Sbjct	24601	 GGGACCAGCTTAGCCACAGAGATGAGCACTGTCCTTTCTGGAGTGCCCACTGGTGCCACT	24660
Query	24661	GCTGAAGTCTCCAGGACAGAAGTCACCTCCTCTAGCAGAACATCCATCTCAGGCTTTGCT	24720
Sbjct	24661	 GCTGAAGTCTCCAGGACAGAAGTCACCTCCTCTAGCAGAACATCCATCTCAGGCTTTGCT	24720
Query	24721	CAGCTCACAGTGTACCAGAGACTTCCACAGAAACCATCACCAGACTCCCTACCTCCAGC	24780
Sbjct	24721	 CAGCTCACAGTGTACCAGAGACTTCCACAGAAACCATCACCAGACTCCCTACCTCCAGC	24780
Query	24781	ATAATGACAGAATCAGCAGAAATGATGATCAAGACACAAACAGATCCTCCTGGGTCTACA	24840
Sbjct	24781	 ATAATGACAGAATCAGCAGAAATGATGATCAAGACACAAACAGATCCTCCTGGGTCTACA	24840
Query	24841	CCAGAGAGTACTCATACTGTGGACATATCAACAACACCCAACTGGGTAGAAACCCACTCG	24900
Sbjct	24841	 CCAGAGAGTACTCATACTGTGGACATATCAACAACACCCAACTGGGTAGAAACCCACTCG	24900
Query	24901	ACTGTGACTCAGAGATTTTCACACTCAGAGATGACCACTCTTGTGAGCAGAAGCCCTGGT	24960
Sbjct	24901	 ACTGTGACTCAGAGATTTTCACACTCAGAGATGACCACTCTTGTGAGCAGAAGCCCTGGT	24960
Query	24961	GATATGTTATGGCCTAGTCAATCCTCTGTGGAAGAAACCAGCTCTGCCTCTTCCCTGCTG	25020
Sbjct	24961	 GATATGTTATGGCCTAGTCAATCCTCTGTGGAAGAAACCAGCTCTGCCTCTTCCCTGCTG	25020



Query	25021	TCTCTGCCTGCCACGACCTCACCTTCTCCTGTTTCCTCTACATTAGTAGAGGATTTCCCT	25080
Sbjct	25021	TCTCTGCCTGCCACGACCTCACCTTCTCCTGTTTCCTCTACATTAGTAGAGGATTTCCCT	25080
Query	25081	TCCGCTTCTCTTCCTGTGACTTCTCTTCTCACCCCTGGCCTGGTGATAACCACAGACAGG	25140
Sbjct	25081	TCCGCTTCTCTTCCTGTGACTTCTCTTCTCACCCCTGGCCTGGTGATAACCACAGACAGG	25140
Query	25141	ATGGGCATAAGCAGAGAAACCTGGAACCAGTTCCACTTCAAATTTGAGCAGCACCTCCCAT	25200
Sbjct	25141	ATGGGCATAAGCAGAGAAACCTGGAACCAGTTCCACTTCAAATTTGAGCAGCACCTCCCAT	25200
Query	25201	GAGAGACTGACCACTTTGGAAGACACTGTAGATACAGAAGACATGCAGCCTTCCACACAC	25260
Sbjct	25201	GAGAGACTGACCACTTTGGAAGACACTGTAGATACAGAAGACATGCAGCCTTCCACACAC	25260
Query	25261	ACAGCAGTGACCAACGTGAGGACCTCCATTTCTGGACATGAATCACAATCTTCTGTCTTA	25320
Sbjct	25261	ACAGCAGTGACCAACGTGAGGACCTCCATTTCTGGACATGAATCACAATCTTCTGTCTTA	25320
Query	25321	TCTGACTCAGAGACACCCAAAGCCACATCTCCAATGGGTACCACCTACACCATGGGGGAA	25380
Sbjct	25321	TCTGACTCAGAGACACCCAAAGCCACATCTCCAATGGGTACCACCTACACCATGGGGGAA	25380
Query	25381	ACGAGTGTTTCCATATCCACTTCTGACTTCTTTGAGACCAGCAGAATTCAGATAGAACCA	25440
Sbjct	25381	ACGAGTGTTTCCATATCCACTTCTGACTTCTTTGAGACCAGCAGAATTCAGATAGAACCA	25440
Query	25441	ACATCCTCCCTGACTTCTGGATTGAGGGAGACCAGCAGCTCTGAGAGGATCAGCTCAGCC	25500
Sbjct	25441	ACATCCTCCCTGACTTCTGGATTGAGGGAGACCAGCAGCTCTGAGAGGATCAGCTCAGCC	25500
Query	25501	ACAGAGGGAAGCACTGTCTTTCTGAAGTGCCAGTGGTGCTACCACTGAGGTCTCCAGG	25560
Sbjct	25501	ACAGAGGGAAGCACTGTCTTTCTGAAGTGCCAGTGGTGCTACCACTGAGGTCTCCAGG	25560
Query	25561	ACAGAAGTGATATCCTCTAGGGGAACATCCATGTCAGGGCCTGATCAGTTCACCATATCA	25620
Sbjct	25561	ACAGAAGTGATATCCTCTAGGGGAACATCCATGTCAGGGCCTGATCAGTTCACCATATCA	25620
Query	25621	CCAGACATCTCTACTGAAGCGATCACCAGGCTTTCTACTTCCCCATTATGACAGAATCA	25680
Sbjct	25621	CCAGACATCTCTACTGAAGCGATCACCAGGCTTTCTACTTCCCCATTATGACAGAATCA	25680
Query	25681	GCAGAAAGTGCCATCACTATTGAGACAGGTTCTCCTGGGGCTACATCAGAGGGTACCCTC	25740
Sbjct	25681	GCAGAAAGTGCCATCACTATTGAGACAGGTTCTCCTGGGGCTACATCAGAGGGTACCCTC	25740
Query	25741	ACCTTGACACCTCAACAACAACCTTTTGGTCAGGGACCCACTCAACTGCATCTCCAGGA	25800
Sbjct	25741	ACCTTGACACCTCAACAACAACCTTTTGGTCAGGGACCCACTCAACTGCATCTCCAGGA	25800
Query	25801	TTTTCACTCAGAGATGACCACTCTTATGAGTAGAACTCCTGGAGATGTGCCATGGCCG	25860
Sbjct	25801	TTTTCACTCAGAGATGACCACTCTTATGAGTAGAACTCCTGGAGATGTGCCATGGCCG	25860
Query	25861	AGCCTTCCCTCTGTGGAAGAAGCCAGCTCTGTCTCTTCTCACTGTCTTCACCTGCCATG	25920
Sbjct	25861	AGCCTTCCCTCTGTGGAAGAAGCCAGCTCTGTCTCTTCTCACTGTCTTCACCTGCCATG	25920
Query	25921	ACCTCAACTTCTTTTTTCTCCGCATTACCAGAGAGCATCTCCTCCTCTCCTCATCCTGTG	25980
Sbjct	25921	ACCTCAACTTCTTTTTTCTCCGCATTACCAGAGAGCATCTCCTCCTCTCCTCATCCTGTG	25980
Query	25981	ACTGCACTTCTCACCTTGGCCCAGTGAAGACCACAGACATGTTGCGCACAAGCTCAGAA	26040

Sbjct	25981	 ACTGCACTTCTCACCCCTTGGCCCCAGTGAAGACCACAGACATGTTGCGCACAAAGCTCAGAA	26040
Query	26041	CCTGAAACCAGTTCACCTCCAAATTTGAGCAGCACCTCAGCTGAAATATTAGCCACGTCT	26100
Sbjct	26041	 CCTGAAACCAGTTCACCTCCAAATTTGAGCAGCACCTCAGCTGAAATATTAGCCACGTCT	26100
Query	26101	GAAGTCACCAAAGATAGAGAGAAAAATTCATCCCTCCTCAAACACACCTGTAGTCAATGTA	26160
Sbjct	26101	 GAAGTCACCAAAGATAGAGAGAAAAATTCATCCCTCCTCAAACACACCTGTAGTCAATGTA	26160
Query	26161	GGGACTGTGATTTATAAACATCTATCCCTTCTCTGTTTTGGCTGACTTAGTGACAACA	26220
Sbjct	26161	 GGGACTGTGATTTATAAACATCTATCCCTTCTCTGTTTTGGCTGACTTAGTGACAACA	26220
Query	26221	AAACCCACATCTCCAATGGCTACCACCTCCACTCTGGGGAATACAAGTGTTCACATCA	26280
Sbjct	26221	 AAACCCACATCTCCAATGGCTACCACCTCCACTCTGGGGAATACAAGTGTTCACATCA	26280
Query	26281	ACTCCTGCCTTCCCAGAAACTATGATGACACAGCCAACTTCCTCCCTGACTTCTGGATTA	26340
Sbjct	26281	 ACTCCTGCCTTCCCAGAAACTATGATGACACAGCCAACTTCCTCCCTGACTTCTGGATTA	26340
Query	26341	AGGGAGATCAGTACCTCTCAAGAGACCAGCTCAGCAACAGAGAGAAGTGCTTCTCTTTCT	26400
Sbjct	26341	 AGGGAGATCAGTACCTCTCAAGAGACCAGCTCAGCAACAGAGAGAAGTGCTTCTCTTTCT	26400
Query	26401	GGAATGCCCACTGGTGCTACTACTAAGGTCTCCAGAACAGAAGCCCTCTCCTTAGGCAGA	26460
Sbjct	26401	 GGAATGCCCACTGGTGCTACTACTAAGGTCTCCAGAACAGAAGCCCTCTCCTTAGGCAGA	26460
Query	26461	ACATCCACCCCAGGTCTGCTCAATCCACAATATCACCAGAAATCTCCACGGAAACCATC	26520
Sbjct	26461	 ACATCCACCCCAGGTCTGCTCAATCCACAATATCACCAGAAATCTCCACGGAAACCATC	26520
Query	26521	ACTAGAATTTCTACTCCCCTCACCACGACAGGATCAGCAGAAATGACCATCACCCCCAAA	26580
Sbjct	26521	 ACTAGAATTTCTACTCCCCTCACCACGACAGGATCAGCAGAAATGACCATCACCCCCAAA	26580
Query	26581	ACAGGTCATTCTGGGGCATCCTCACAAGGTACCTTTACCTTGGACACATCAAGCAGAGCC	26640
Sbjct	26581	 ACAGGTCATTCTGGGGCATCCTCACAAGGTACCTTTACCTTGGACACATCAAGCAGAGCC	26640
Query	26641	TCCTGGCCAGGAACTCACTCAGCTGCAACTCACAGATCTCCACACTCAGGGATGACCACT	26700
Sbjct	26641	 TCCTGGCCAGGAACTCACTCAGCTGCAACTCACAGATCTCCACACTCAGGGATGACCACT	26700
Query	26701	CCTATGAGCAGAGGTCTGAGGATGTGTATGGCCAAGCCGCCCATCAGTGGAaaaaaact	26760
Sbjct	26701	 CCTATGAGCAGAGGTCTGAGGATGTGTATGGCCAAGCCGCCCATCAGTGGAaaaaaact	26760
Query	26761	AGCCCTCCATCTTCCCTGGTGTCTTTATCTGCAGTAACCTCACCTTCGCCACTTTATTCC	26820
Sbjct	26761	 AGCCCTCCATCTTCCCTGGTGTCTTTATCTGCAGTAACCTCACCTTCGCCACTTTATTCC	26820
Query	26821	ACACCATCTGAGAGTAGCCACTCATCTCCTCTCCGGGTGACTTCTCTTTTCACCCCTGTC	26880
Sbjct	26821	 ACACCATCTGAGAGTAGCCACTCATCTCCTCTCCGGGTGACTTCTCTTTTCACCCCTGTC	26880
Query	26881	ATGATGAAGACCACAGACATGTTGGACACAAGCTTGGAACCTGTGACCACTTCACCTCCC	26940
Sbjct	26881	 ATGATGAAGACCACAGACATGTTGGACACAAGCTTGGAACCTGTGACCACTTCACCTCCC	26940
Query	26941	AGTATGAATATCACCTCAGATGAGAGTCTGGCCACTTCTAAAGCCACCATGGAGACAGAG	27000
Sbjct	26941	 AGTATGAATATCACCTCAGATGAGAGTCTGGCCACTTCTAAAGCCACCATGGAGACAGAG	27000

Query	27001	GCAATTCAGCTTTTCAGAAAACACAGCTGTGACTCAGATGGGCACCATCAGCGCTAGACAA	27060
Sbjct	27001	GCAATTCAGCTTTTCAGAAAACACAGCTGTGACTCAGATGGGCACCATCAGCGCTAGACAA	27060
Query	27061	GAATTCTATTCTCTTATCCAGGCCTCCCAGAGCCATCCAAAGTGACATCTCCAGTGGTC	27120
Sbjct	27061	GAATTCTATTCTCTTATCCAGGCCTCCCAGAGCCATCCAAAGTGACATCTCCAGTGGTC	27120
Query	27121	ACCTCTTCCACCATAAAAAGACATTGTTTCTACAACCATACTGCTTCCTCTGAGATAACA	27180
Sbjct	27121	ACCTCTTCCACCATAAAAAGACATTGTTTCTACAACCATACTGCTTCCTCTGAGATAACA	27180
Query	27181	AGAATTGAGATGGAGTCAACATCCACCCTGACCCCCACACCAAGGGAGACCAGCACCTCC	27240
Sbjct	27181	AGAATTGAGATGGAGTCAACATCCACCCTGACCCCCACACCAAGGGAGACCAGCACCTCC	27240
Query	27241	CAGGAGATCCACTCAGCCACAAAGCCAAGCACTGTTTCCTTACAAGGCACTCACTAGTGCC	27300
Sbjct	27241	CAGGAGATCCACTCAGCCACAAAGCCAAGCACTGTTTCCTTACAAGGCACTCACTAGTGCC	27300
Query	27301	ACGATTGAGGACTCCATGACACAAGTCATGTCTCTAGCAGAGGACCTAGCCCTGATCAG	27360
Sbjct	27301	ACGATTGAGGACTCCATGACACAAGTCATGTCTCTAGCAGAGGACCTAGCCCTGATCAG	27360
Query	27361	TCCACAATGTCACAAGACATATCCAGTGAAGTGATCACCAGGCTCTCTACCTCCCCCATC	27420
Sbjct	27361	TCCACAATGTCACAAGACATATCCAGTGAAGTGATCACCAGGCTCTCTACCTCCCCCATC	27420
Query	27421	AAGGCAGAATCTACAGAAATGACCATTACCACCCAAACAGGTTCTCCTGGGGCTACATCA	27480
Sbjct	27421	AAGGCAGAATCTACAGAAATGACCATTACCACCCAAACAGGTTCTCCTGGGGCTACATCA	27480
Query	27481	AGGGGTACCCTTACCTTGGACACTTCAACAACCTTTTATGTGAGGGACCCACTCAACTGCA	27540
Sbjct	27481	AGGGGTACCCTTACCTTGGACACTTCAACAACCTTTTATGTGAGGGACCCACTCAACTGCA	27540
Query	27541	TCTCAAGGATTTTCACACTCAGATGACCGCTCTTATGAGTAGAACTCCTGGAGATGTG	27600
Sbjct	27541	TCTCAAGGATTTTCACACTCAGATGACCGCTCTTATGAGTAGAACTCCTGGAGATGTG	27600
Query	27601	CCATGGCTAAGCCATCCCTCTGTGGAAGAAGCCAGCTCTGCCTCTTTCTCACTGTCTTCA	27660
Sbjct	27601	CCATGGCTAAGCCATCCCTCTGTGGAAGAAGCCAGCTCTGCCTCTTTCTCACTGTCTTCA	27660
Query	27661	CCTGTCATGACCTCATCTTCTCCCGTTTCTTCCACATTACCAGACAGCATCCACTCTTCT	27720
Sbjct	27661	CCTGTCATGACCTCATCTTCTCCCGTTTCTTCCACATTACCAGACAGCATCCACTCTTCT	27720
Query	27721	TCGCTTCCTGTGACATCACTTCTCACCTCAGGGCTGGTGAAGACCACAGAGCTGTTGGGC	27780
Sbjct	27721	TCGCTTCCTGTGACATCACTTCTCACCTCAGGGCTGGTGAAGACCACAGAGCTGTTGGGC	27780
Query	27781	ACAAGCTCAGAACCTGAAACCAGTTCACCCCCAAATTTGAGCAGCACCTCAGCTGAAATA	27840
Sbjct	27781	ACAAGCTCAGAACCTGAAACCAGTTCACCCCCAAATTTGAGCAGCACCTCAGCTGAAATA	27840
Query	27841	CTGGCCACCACTGAAGTCACTACAGATACAGAGAACTGGAGATGACCAATGTGGTAACC	27900
Sbjct	27841	CTGGCCACCACTGAAGTCACTACAGATACAGAGAACTGGAGATGACCAATGTGGTAACC	27900
Query	27901	TCAGGTTATACACATGAATCTCCTTCTGTCTAGCTGACTCAGTGACAACAAAGGCC	27960
Sbjct	27901	TCAGGTTATACACATGAATCTCCTTCTGTCTAGCTGACTCAGTGACAACAAAGGCC	27960
Query	27961	ACATCTTCAATGGGTATCACCTACCCACAGGAGATACAAATGTTCTCACATCAACCCCT	28020

Sbjct	27961	 ACATCTTCAATGGGTATCACCTACCCACAGGAGATACAAATGTTCTCACATCAACCCCT	28020
Query	28021	GCCTTCTCTGACACCAGTAGGATTCAAACAAAGTCAAAGCTCTCACTGACTCCTGGGTTG	28080
Sbjct	28021	 GCCTTCTCTGACACCAGTAGGATTCAAACAAAGTCAAAGCTCTCACTGACTCCTGGGTTG	28080
Query	28081	ATGGAGACCAGCATCTCTGAAGAGACCAGCTCTGCCACAGAAAAAAGCACTGTCCTTTCT	28140
Sbjct	28081	 ATGGAGACCAGCATCTCTGAAGAGACCAGCTCTGCCACAGAAAAAAGCACTGTCCTTTCT	28140
Query	28141	AGTGTGCCCACTGGTGCTACTACTGAGGTCTCCAGGACAGAAGCCATCTCTTCTAGCAGA	28200
Sbjct	28141	 AGTGTGCCCACTGGTGCTACTACTGAGGTCTCCAGGACAGAAGCCATCTCTTCTAGCAGA	28200
Query	28201	ACATCCATCCCAGGCCCTGCTCAATCCACAATGTCATCAGACACCTCCATGGAAACCATC	28260
Sbjct	28201	 ACATCCATCCCAGGCCCTGCTCAATCCACAATGTCATCAGACACCTCCATGGAAACCATC	28260
Query	28261	ACTAGAATTTCTACCCCCCTCACAAGGAAAGAATCAACAGACATGGCCATCACCCCCAAA	28320
Sbjct	28261	 ACTAGAATTTCTACCCCCCTCACAAGGAAAGAATCAACAGACATGGCCATCACCCCCAAA	28320
Query	28321	ACAGGTCCTTCTGGGGCTACCTCGCAGGGTACCTTTACCTTGGACTCATCAAGCACAGCC	28380
Sbjct	28321	 ACAGGTCCTTCTGGGGCTACCTCGCAGGGTACCTTTACCTTGGACTCATCAAGCACAGCC	28380
Query	28381	TCCTGGCCAGGAACTCACTCAGCTACAACTCAGAGATTTCCACAGTCAGTGGTGACAACT	28440
Sbjct	28381	 TCCTGGCCAGGAACTCACTCAGCTACAACTCAGAGATTTCCACAGTCAGTGGTGACAACT	28440
Query	28441	CCTATGAGCAGAGGTCTGAGGATGTGTGTCATGGCCAAGCCCGCTGTCTGTGGnnnnnnnC	28500
Sbjct	28441	 CCTATGAGCAGAGGTCTGAGGATGTGTGTCATGGCCAAGCCCGCTGTCTGTGGAAAAAAC	28500
Query	28501	AGCCCTCCATCTTCCCTGGTATCTTCATCTTCAGTAACCTCACCTTCGCCACTTTATTCC	28560
Sbjct	28501	 AGCCCTCCATCTTCCCTGGTATCTTCATCTTCAGTAACCTCACCTTCGCCACTTTATTCC	28560
Query	28561	ACACCATCTGGGAGTAGCCACTCCTCTCCTGTCCCTGTCACTTCTCTTTTCACCTCTATC	28620
Sbjct	28561	 ACACCATCTGGGAGTAGCCACTCCTCTCCTGTCCCTGTCACTTCTCTTTTCACCTCTATC	28620
Query	28621	ATGATGAAGGCCACAGACATGTTGGATGCAAGTTTGGAACTGAGACCACTTCAGCTCCC	28680
Sbjct	28621	 ATGATGAAGGCCACAGACATGTTGGATGCAAGTTTGGAACTGAGACCACTTCAGCTCCC	28680
Query	28681	AATATGAATATCACCTCAGATGAGAGTCTGGCCACTTCTAAAGCCACCACGGAGACAGAG	28740
Sbjct	28681	 AATATGAATATCACCTCAGATGAGAGTCTGGCCACTTCTAAAGCCACCACGGAGACAGAG	28740
Query	28741	GCAATTCACGTTTTTTGAAAATACAGCAGCGTCCCATGTGGAAACCACCAGTGCTACAGAG	28800
Sbjct	28741	 GCAATTCACGTTTTTTGAAAATACAGCAGCGTCCCATGTGGAAACCACCAGTGCTACAGAG	28800
Query	28801	GAACTCTATTCTCTTCCCCAGGCTTCTCAGAGCCAACAAAAGTGATATCTCCAGTGGTC	28860
Sbjct	28801	 GAACTCTATTCTCTTCCCCAGGCTTCTCAGAGCCAACAAAAGTGATATCTCCAGTGGTC	28860
Query	28861	ACCTCTTCTCTATAAGAGACAACATGGTTTTCCACAACAATGCCTGGCTCCTCTGGCATT	28920
Sbjct	28861	 ACCTCTTCTCTATAAGAGACAACATGGTTTTCCACAACAATGCCTGGCTCCTCTGGCATT	28920
Query	28921	ACAAGGATTGAGATAGAGTCAATGTCATCTCTGACCCCTGGACTGAGGGAGACCAGAACC	28980
Sbjct	28921	 ACAAGGATTGAGATAGAGTCAATGTCATCTCTGACCCCTGGACTGAGGGAGACCAGAACC	28980

Query	28981	TCCCAGGACATCACCTCATCCACAGAGACAAGCACTGTCCTTTACAAGATGTCCTCTGGT	29040
Sbjct	28981	TCCCAGGACATCACCTCATCCACAGAGACAAGCACTGTCCTTTACAAGATGTCCTCTGGT	29040
Query	29041	GCCACTCCTGAGGTCTCCAGGACAGAAGTTATGCCCTCTAGCAGAACATCCATTCTGGC	29100
Sbjct	29041	GCCACTCCTGAGGTCTCCAGGACAGAAGTTATGCCCTCTAGCAGAACATCCATTCTGGC	29100
Query	29101	CCTGCTCAGTCCACAATGTCCTAGACATCTCCGATGAAGTTGTCACCAGGCTGTCTACC	29160
Sbjct	29101	CCTGCTCAGTCCACAATGTCCTAGACATCTCCGATGAAGTTGTCACCAGGCTGTCTACC	29160
Query	29161	TCTCCCATCATGACAGAATCTGCAGAAATAACCATCACCAACAGGTTATTCTCTG	29220
Sbjct	29161	TCTCCCATCATGACAGAATCTGCAGAAATAACCATCACCAACAGGTTATTCTCTG	29220
Query	29221	GCTACATCCCAGGTTACCCCTTCCCTTGGGCACCTCAATGACCTTTTTGTGAGGGACCCAC	29280
Sbjct	29221	GCTACATCCCAGGTTACCCCTTCCCTTGGGCACCTCAATGACCTTTTTGTGAGGGACCCAC	29280
Query	29281	TCAACTATGTCTCAAGGACTTTCACACTCAGAGATGACCAATCTTATGAGCAGGGGTCTT	29340
Sbjct	29281	TCAACTATGTCTCAAGGACTTTCACACTCAGAGATGACCAATCTTATGAGCAGGGGTCTT	29340
Query	29341	GAAAGTCTGTCATGGACGAGCCCTCGCTTTGTGGAAACAACCTAGATCTTCCTCTTCTCTG	29400
Sbjct	29341	GAAAGTCTGTCATGGACGAGCCCTCGCTTTGTGGAAACAACCTAGATCTTCCTCTTCTCTG	29400
Query	29401	ACATCATTACCTCTCACGACCTCACTTTCTCCTGTGTCTCCACATTACTAGACAGTAGC	29460
Sbjct	29401	ACATCATTACCTCTCACGACCTCACTTTCTCCTGTGTCTCCACATTACTAGACAGTAGC	29460
Query	29461	CCCTCCTCTCCTCTTCTGTGACTTCACTTATCCTCCCAGGCCTGGTGAAGACTACAGAA	29520
Sbjct	29461	CCCTCCTCTCCTCTTCTGTGACTTCACTTATCCTCCCAGGCCTGGTGAAGACTACAGAA	29520
Query	29521	GTGTTGGATACAAGCTCAGAGCCTAAAACAGTTCATCTCCAAATTTGAGCAGCACCTCA	29580
Sbjct	29521	GTGTTGGATACAAGCTCAGAGCCTAAAACAGTTCATCTCCAAATTTGAGCAGCACCTCA	29580
Query	29581	GTTGAAATACCGGCCACCTCTGAAATCATGACAGATACAGAGAAAATTCATCCTTCCTCA	29640
Sbjct	29581	GTTGAAATACCGGCCACCTCTGAAATCATGACAGATACAGAGAAAATTCATCCTTCCTCA	29640
Query	29641	AACACAGCGGTGGCCAAAGTGAGGACCTCCAGTTCTGTTTCATGAATCTCATTCTCTGTC	29700
Sbjct	29641	AACACAGCGGTGGCCAAAGTGAGGACCTCCAGTTCTGTTTCATGAATCTCATTCTCTGTC	29700
Query	29701	CTAGCTGACTCAGAAACAACCATACCTTCAATGGGTATCACCTCCGCTGTGGAC	29760
Sbjct	29701	CTAGCTGACTCAGAAACAACCATACCTTCAATGGGTATCACCTCCGCTGTGGAC	29760
Query	29761	GATACCACTGTTTTACATCAAATCCTGCCTTCTCTGAGACTAGGAGGATTCGACAGAG	29820
Sbjct	29761	GATACCACTGTTTTACATCAAATCCTGCCTTCTCTGAGACTAGGAGGATTCGACAGAG	29820
Query	29821	CCAACATTCTCATTGACTCCTGGATTACGGGAGACTAGCACCTCTGAAGAGACCACCTCA	29880
Sbjct	29821	CCAACATTCTCATTGACTCCTGGATTACGGGAGACTAGCACCTCTGAAGAGACCACCTCA	29880
Query	29881	ATCACAGAAACAAGTGCAGTCCTTTATGGAGTGCCCACTAGTGCTACTACTGAAGTCTCC	29940
Sbjct	29881	ATCACAGAAACAAGTGCAGTCCTTTATGGAGTGCCCACTAGTGCTACTACTGAAGTCTCC	29940
Query	29941	ATGACAGAAATCATGTCCTCTAATAGAACACACATCCCTGACTCTGATCAGTCCACGATG	30000

Sbjct	29941	 ATGACAGAAATCATGTCTCTAATAGAACACACATCCCTGACTCTGATCAGTCCACGATG	30000
Query	30001	TCTCCAGACATCATCACTGAAGTGATCACCAGGCTCTCTTCCTCATCCATGATGTCAGAA	30060
Sbjct	30001	 TCTCCAGACATCATCACTGAAGTGATCACCAGGCTCTCTTCCTCATCCATGATGTCAGAA	30060
Query	30061	TCAACACAAATGACCATCACCACCCAAAAAAGTTCTCCTGGGGCTACAGCACAGAGTACT	30120
Sbjct	30061	 TCAACACAAATGACCATCACCACCCAAAAAAGTTCTCCTGGGGCTACAGCACAGAGTACT	30120
Query	30121	CTTACCTTGGCCACAACAACAGCCCCCTTGGCAAGGACCCACTCAACTGTTCTCTCTAGA	30180
Sbjct	30121	 CTTACCTTGGCCACAACAACAGCCCCCTTGGCAAGGACCCACTCAACTGTTCTCTCTAGA	30180
Query	30181	TTTTTACACTCAGAGATGACAACTCTTATGAGTAGGAGTCCTGAAAATCCATCATGGAAG	30240
Sbjct	30181	 TTTTTACACTCAGAGATGACAACTCTTATGAGTAGGAGTCCTGAAAATCCATCATGGAAG	30240
Query	30241	AGCTCTCCCTTTGTGGAAAAAAGTAGCTCTTCATCTTCTCTGTTGTCTTACCTGTCACG	30300
Sbjct	30241	 AGCTCTCCCTTTGTGGAAAAAAGTAGCTCTTCATCTTCTCTGTTGTCTTACCTGTCACG	30300
Query	30301	ACCTCACCTTCTGTTTCTTCCACATTACCGCAGAGTATCCCTTCCTCCTCTTTTCTGTG	30360
Sbjct	30301	 ACCTCACCTTCTGTTTCTTCCACATTACCGCAGAGTATCCCTTCCTCCTCTTTTCTGTG	30360
Query	30361	ACTTCACTCCTCACCCCAGGCATGGTGAAGACTACAGACACAAGCACAGAACCTGGAACC	30420
Sbjct	30361	 ACTTCACTCCTCACCCCAGGCATGGTGAAGACTACAGACACAAGCACAGAACCTGGAACC	30420
Query	30421	AGTTTATCTCCAAATCTGAGTGGCACCTCAGTTGAAATACTGGCTGCCTCTGAAGTCACC	30480
Sbjct	30421	 AGTTTATCTCCAAATCTGAGTGGCACCTCAGTTGAAATACTGGCTGCCTCTGAAGTCACC	30480
Query	30481	ACAGATACAGAGAAAATTTCATCCTTCTTCAAGCATGGCAGTGACCAATGTGGGAACCACC	30540
Sbjct	30481	 ACAGATACAGAGAAAATTTCATCCTTCTTCAAGCATGGCAGTGACCAATGTGGGAACCACC	30540
Query	30541	AGTTCTGGACATGAACTATATTCTCTGTTTCAATCCACTCGGAGCCATCCAAGGCTACA	30600
Sbjct	30541	 AGTTCTGGACATGAACTATATTCTCTGTTTCAATCCACTCGGAGCCATCCAAGGCTACA	30600
Query	30601	TACCCAGTGGGTACTCCCTCTTCCATGGCTGAAACCTCTATTTCCACATCAATGCCTGCT	30660
Sbjct	30601	 TACCCAGTGGGTACTCCCTCTTCCATGGCTGAAACCTCTATTTCCACATCAATGCCTGCT	30660
Query	30661	AATTTTGAGACCACAGGATTTGAGGCTGAGCCATTTTCTCATTTGACTTCTGGATTTAGG	30720
Sbjct	30661	 AATTTTGAGACCACAGGATTTGAGGCTGAGCCATTTTCTCATTTGACTTCTGGATTTAGG	30720
Query	30721	AAGACAAACATGTCCCTGGACACCAGCTCAGTCACACCAACAAATACACCTTCTTCTCCT	30780
Sbjct	30721	 AAGACAAACATGTCCCTGGACACCAGCTCAGTCACACCAACAAATACACCTTCTTCTCCT	30780
Query	30781	GGGTCCACTCACCTTTTACAGAGTTCCAAGACTGATTTACCTCTTCTGCAAAAACATCA	30840
Sbjct	30781	 GGGTCCACTCACCTTTTACAGAGTTCCAAGACTGATTTACCTCTTCTGCAAAAACATCA	30840
Query	30841	TCCCCAGACTGGCCTCCAGCCTCACAGTATACTGAAATTCCAGTGGACATAATCACCCCC	30900
Sbjct	30841	 TCCCCAGACTGGCCTCCAGCCTCACAGTATACTGAAATTCCAGTGGACATAATCACCCCC	30900
Query	30901	TTTAATGCTTCTCCATCTATTACGGAGTCCACTGGGATAACCTCCTTCCCAGAATCCAGG	30960
Sbjct	30901	 TTTAATGCTTCTCCATCTATTACGGAGTCCACTGGGATAACCTCCTTCCCAGAATCCAGG	30960

Query	30961	TTTACTATGTCTGTAACAGAAAGTACTCATCATCTGAGTACAGATTTGCTGCCTTCAGCT	31020
Sbjct	30961	TTTACTATGTCTGTAACAGAAAGTACTCATCATCTGAGTACAGATTTGCTGCCTTCAGCT	31020
Query	31021	GAGACTATTTCCACTGGCACAGTGATGCCTTCTCTATCAGAGGCCATGACTTCATTTGCC	31080
Sbjct	31021	GAGACTATTTCCACTGGCACAGTGATGCCTTCTCTATCAGAGGCCATGACTTCATTTGCC	31080
Query	31081	ACCACTGGAGTTCCACGAGCCATCTCAGGTTCAGGTAGTCCATTCTCTAGGACAGAGTCA	31140
Sbjct	31081	ACCACTGGAGTTCCACGAGCCATCTCAGGTTCAGGTAGTCCATTCTCTAGGACAGAGTCA	31140
Query	31141	GGCCCTGGGGATGCTACTCTGTCCACCATTGCAGAGAGCCTGCCTTCATCCACTCCTGTG	31200
Sbjct	31141	GGCCCTGGGGATGCTACTCTGTCCACCATTGCAGAGAGCCTGCCTTCATCCACTCCTGTG	31200
Query	31201	CCATTCTCCTCTTCAACCTTCACTACCACTGATTCTTCAACCATCCCAGCCCTCCATGAG	31260
Sbjct	31201	CCATTCTCCTCTTCAACCTTCACTACCACTGATTCTTCAACCATCCCAGCCCTCCATGAG	31260
Query	31261	ATAACTTCCTCTTCAGCTACCCCATATAGAGTGGACACCACTCTTGGGACAGAGAGCAGC	31320
Sbjct	31261	ATAACTTCCTCTTCAGCTACCCCATATAGAGTGGACACCACTCTTGGGACAGAGAGCAGC	31320
Query	31321	ACTACTGAAGGACGCTTGGTTATGGTCAGTACTTTGGACACTTCAAGCCAACCAGGCAGG	31380
Sbjct	31321	ACTACTGAAGGACGCTTGGTTATGGTCAGTACTTTGGACACTTCAAGCCAACCAGGCAGG	31380
Query	31381	ACATCTTCAACACCCATTTTGGATACCAGAATGACAGAGAGCGTTGAGCTGGGAACAGTG	31440
Sbjct	31381	ACATCTTCAACACCCATTTTGGATACCAGAATGACAGAGAGCGTTGAGCTGGGAACAGTG	31440
Query	31441	ACAAGTGCTTATCAAGTTCCTTCACTCTCAACACGGTTGACAAGAACTGATGGCATTATG	31500
Sbjct	31441	ACAAGTGCTTATCAAGTTCCTTCACTCTCAACACGGTTGACAAGAACTGATGGCATTATG	31500
Query	31501	GAACACATCACAAAAATACCCAATGAAGCAGCACACAGAGGTACCATAAGACCAGTCAAA	31560
Sbjct	31501	GAACACATCACAAAAATACCCAATGAAGCAGCACACAGAGGTACCATAAGACCAGTCAAA	31560
Query	31561	GGCCCTCAGACATCCACTTCGCCTGCCAGTCCTAAAGGACTACACACAGGAGGGACAAAA	31620
Sbjct	31561	GGCCCTCAGACATCCACTTCGCCTGCCAGTCCTAAAGGACTACACACAGGAGGGACAAAA	31620
Query	31621	AGAATGGAGACCACCACCACAGCTTTGAAGACCACCACCACAGCTTTGAAGACCACTTCC	31680
Sbjct	31621	AGAATGGAGACCACCACCACAGCTTTGAAGACCACCACCACAGCTTTGAAGACCACTTCC	31680
Query	31681	AGAGCCACCTTGACCACCAGTGTCTATACTCCCACCTTTGGGAACACTGACTCCCCTCAAT	31740
Sbjct	31681	AGAGCCACCTTGACCACCAGTGTCTATACTCCCACCTTTGGGAACACTGACTCCCCTCAAT	31740
Query	31741	GCATCAAGGCAAATGGCCAGCACAAATCCTCACAGAAATGATGATCACAACCCCATATGTT	31800
Sbjct	31741	GCATCAAGGCAAATGGCCAGCACAAATCCTCACAGAAATGATGATCACAACCCCATATGTT	31800
Query	31801	TTCCCTGATGTTCCAGAAACGACATCCTCATTGGCTACCAGCCTGGGAGCAGAAACCAGC	31860
Sbjct	31801	TTCCCTGATGTTCCAGAAACGACATCCTCATTGGCTACCAGCCTGGGAGCAGAAACCAGC	31860
Query	31861	ACAGCTCTTCCCAGGACAACCCCATCTGTTCTCAATAGAGAATCAGAGACCACAGCCTCA	31920
Sbjct	31861	ACAGCTCTTCCCAGGACAACCCCATCTGTTCTCAATAGAGAATCAGAGACCACAGCCTCA	31920
Query	31921	CTGGTCTCTCGTTCTGGGGCAGAGAGAAGTCCGTTATTCAAACCTCTAGATGTTTCTTCT	31980

Sbjct	31921	 CTGGTCTCTCGTTCTGGGGCAGAGAGAAAGTCCGGTTATTCAAACCTCTAGATGTTTCTTCT	31980
Query	31981	AGTGAGCCAGATACAACAGCTTCATGGGTTATCCATCCTGCAGAGACCATCCCAACTGTT	32040
Sbjct	31981	 AGTGAGCCAGATACAACAGCTTCATGGGTTATCCATCCTGCAGAGACCATCCCAACTGTT	32040
Query	32041	TCCAAGACAACCCCCAATTTTTTCCACAGTGAATTAGACACTGTATCTTCCACAGCCACC	32100
Sbjct	32041	 TCCAAGACAACCCCCAATTTTTTCCACAGTGAATTAGACACTGTATCTTCCACAGCCACC	32100
Query	32101	AGTCATGGGGCAGACGTCAGCTCAGCCATTCCAACAAATATCTCACCTAGTGAAC TAGAT	32160
Sbjct	32101	 AGTCATGGGGCAGACGTCAGCTCAGCCATTCCAACAAATATCTCACCTAGTGAAC TAGAT	32160
Query	32161	GCACTGACCCCACTGGTCACTATTTTCGGGGACAGATACTAGTACAACATTCCCAACACTG	32220
Sbjct	32161	 GCACTGACCCCACTGGTCACTATTTTCGGGGACAGATACTAGTACAACATTCCCAACACTG	32220
Query	32221	ACTAAGTCCCCACATGAAACAGAGACAAGAACCCACATGGCTCACTCATCCTGCAGAGACC	32280
Sbjct	32221	 ACTAAGTCCCCACATGAAACAGAGACAAGAACCCACATGGCTCACTCATCCTGCAGAGACC	32280
Query	32281	AGCTCAACTATTCCCAGAACAATCCCCAATTTTTCTCATCATGAATCAGATGCCACACCT	32340
Sbjct	32281	 AGCTCAACTATTCCCAGAACAATCCCCAATTTTTCTCATCATGAATCAGATGCCACACCT	32340
Query	32341	TCAATAGCCACCAGTCCTGGGGCAGAAACAGTTTCACTATTCCAATTATGACTGTCTCA	32400
Sbjct	32341	 TCAATAGCCACCAGTCCTGGGGCAGAAACAGTTTCACTATTCCAATTATGACTGTCTCA	32400
Query	32401	CCTGGTGCGAAGATCTGGTGACCTCACAGGTCCTAGTTCTGGGACAGACAGAAATATG	32460
Sbjct	32401	 CCTGGTGCGAAGATCTGGTGACCTCACAGGTCCTAGTTCTGGGACAGACAGAAATATG	32460
Query	32461	ACTATTCCAACCTTTGACTCTTTCTCCTGGTGAACCAAAGACGATAGCCTCATTAGTCACC	32520
Sbjct	32461	 ACTATTCCAACCTTTGACTCTTTCTCCTGGTGAACCAAAGACGATAGCCTCATTAGTCACC	32520
Query	32521	CATCCTGAAGCACAGACAAGTTTCGGCCATTCCAACCTTCAACTATCTCGCCTGCTGTATCA	32580
Sbjct	32521	 CATCCTGAAGCACAGACAAGTTTCGGCCATTCCAACCTTCAACTATCTCGCCTGCTGTATCA	32580
Query	32581	CGGTTGGTGACCTCAATGGTCACCAGTTTGGCGGCAAAGACAAGTACAAC TAATCGAGCT	32640
Sbjct	32581	 CGGTTGGTGACCTCAATGGTCACCAGTTTGGCGGCAAAGACAAGTACAAC TAATCGAGCT	32640
Query	32641	CTGACAAACTCCCCTGGTGAACCAGCTACAACAGTTTTCATTGGTCACGCATCCTGCACAG	32700
Sbjct	32641	 CTGACAAACTCCCCTGGTGAACCAGCTACAACAGTTTTCATTGGTCACGCATCCTGCACAG	32700
Query	32701	ACCAGCCCAACAGTTCCCTGGACAACCTCCAnnnnnnnnCCATAGTAAATCAGACACCACA	32760
Sbjct	32701	 ACCAGCCCAACAGTTCCCTGGACAACCTCCATTTTTTTCCATAGTAAATCAGACACCACA	32760
Query	32761	CCTTCAATGACCACCAGTCATGGGGCAGAATCCAGTTTCACTGTTCCAACCTCCAAC TGT	32820
Sbjct	32761	 CCTTCAATGACCACCAGTCATGGGGCAGAATCCAGTTTCACTGTTCCAACCTCCAAC TGT	32820
Query	32821	TCAACTGAGGTACCAGGAGTAGTGACCCCTTTGGTCACCAGTTCTAGGGCAGTGATCAGT	32880
Sbjct	32821	 TCAACTGAGGTACCAGGAGTAGTGACCCCTTTGGTCACCAGTTCTAGGGCAGTGATCAGT	32880
Query	32881	ACAAC TATTCCAATTCTGACTCTTTCTCCTGGTGAACCAGAGACCACACCTTCAATGGCC	32940
Sbjct	32881	 ACAAC TATTCCAATTCTGACTCTTTCTCCTGGTGAACCAGAGACCACACCTTCAATGGCC	32940



Query	32941	ACCAGTCATGGGGAAGAAGCCAGTTCTGCTATTCCAACTCCAACTGTTTCACCTGGGGTA	33000
Sbjct	32941	ACCAGTCATGGGGAAGAAGCCAGTTCTGCTATTCCAACTCCAACTGTTTCACCTGGGGTA	33000
Query	33001	CCAGGAGTGGTGACCTCTCTGGTCACTAGTTCTAGGGCAGTGACTAGTACAACCTATTCCA	33060
Sbjct	33001	CCAGGAGTGGTGACCTCTCTGGTCACTAGTTCTAGGGCAGTGACTAGTACAACCTATTCCA	33060
Query	33061	ATTCTGACTTTTTCTCTTGGTGAACCAGAGACCACACCTTCAATGGCCACCAGTCATGGG	33120
Sbjct	33061	ATTCTGACTTTTTCTCTTGGTGAACCAGAGACCACACCTTCAATGGCCACCAGTCATGGG	33120
Query	33121	ACAGAAGCTGGCTCAGCTGTTCCAACTGTTTTACCTGAGGTACCAGGAATGGTGACCTCT	33180
Sbjct	33121	ACAGAAGCTGGCTCAGCTGTTCCAACTGTTTTACCTGAGGTACCAGGAATGGTGACCTCT	33180
Query	33181	CTGGTTGCTAGTTCTAGGGCAGTAACCAGTACAACCTCTTCCAACTCTGACTCTTTCTCCT	33240
Sbjct	33181	CTGGTTGCTAGTTCTAGGGCAGTAACCAGTACAACCTCTTCCAACTCTGACTCTTTCTCCT	33240
Query	33241	GGTGAACCAGAGACCACACCTTCAATGGCCACCAGTCATGGGGCAGAAGCCAGCTCAACT	33300
Sbjct	33241	GGTGAACCAGAGACCACACCTTCAATGGCCACCAGTCATGGGGCAGAAGCCAGCTCAACT	33300
Query	33301	GTTCCAACTGTTTCACCTGAGGTACCAGGAGTGGTGACCTCTCTGGTCACTAGTTCTAGT	33360
Sbjct	33301	GTTCCAACTGTTTCACCTGAGGTACCAGGAGTGGTGACCTCTCTGGTCACTAGTTCTAGT	33360
Query	33361	GGAGTAAACAGTACAAGTATTCCAACTCTGATTCTTTCTCCTGGTGAAGTAGAAACCACA	33420
Sbjct	33361	GGAGTAAACAGTACAAGTATTCCAACTCTGATTCTTTCTCCTGGTGAAGTAGAAACCACA	33420
Query	33421	CCTTCAATGGCCACCAGTCATGGGGCAGAAGCCAGCTCAGCTGTTCCAACTCCAACTGTT	33480
Sbjct	33421	CCTTCAATGGCCACCAGTCATGGGGCAGAAGCCAGCTCAGCTGTTCCAACTCCAACTGTT	33480
Query	33481	TCACCTGGGGTATCAGGAGTGGTGACCCCTCTGGTCACTAGTTCCAGGGCAGTGACCAGT	33540
Sbjct	33481	TCACCTGGGGTATCAGGAGTGGTGACCCCTCTGGTCACTAGTTCCAGGGCAGTGACCAGT	33540
Query	33541	ACAACTATTCCAATTCTAACTCTTTCTTCTAGTGAGCCAGAGACCACACCTTCAATGGCC	33600
Sbjct	33541	ACAACTATTCCAATTCTAACTCTTTCTTCTAGTGAGCCAGAGACCACACCTTCAATGGCC	33600
Query	33601	ACCAGTCATGGGGTAGAAGCCAGCTCAGCTGTTCTAACTGTTTCACCTGAGGTACCAGGA	33660
Sbjct	33601	ACCAGTCATGGGGTAGAAGCCAGCTCAGCTGTTCTAACTGTTTCACCTGAGGTACCAGGA	33660
Query	33661	ATGGTGACCTCTCTGGTCACTAGTTCTAGAGCAGTAACCAGTACAACCTATTCCAACTCTG	33720
Sbjct	33661	ATGGTGACCTCTCTGGTCACTAGTTCTAGAGCAGTAACCAGTACAACCTATTCCAACTCTG	33720
Query	33721	ACTATTTCTTCTGATGAACCAGAGACCACAACCTTCATTGGTCACCCATTCTGAGGCAAAG	33780
Sbjct	33721	ACTATTTCTTCTGATGAACCAGAGACCACAACCTTCATTGGTCACCCATTCTGAGGCAAAG	33780
Query	33781	ATGATTTTCAGCCATTCCAACTTTAGCTGTCTCCCCTACTGTACAAGGGCTGGTGACTTCA	33840
Sbjct	33781	ATGATTTTCAGCCATTCCAACTTTAGCTGTCTCCCCTACTGTACAAGGGCTGGTGACTTCA	33840
Query	33841	CTGGTCACTAGTTCTGGGTGAGAGACCAGTGCCTTTTCAAATCTAACTGTTGCCTCAAGT	33900
Sbjct	33841	CTGGTCACTAGTTCTGGGTGAGAGACCAGTGCCTTTTCAAATCTAACTGTTGCCTCAAGT	33900
Query	33901	CAACCAGAGACCATAGACTCATGGGTCGCTCATCCTGGGACAGAAGCAAGTTCTGTTGTT	33960

Sbjct	33901	 CAACCAGAGACCATAGACTCATGGGTCGCTCATCCTGGGACAGAAGCAAGTTCTGTTGTT	33960
Query	33961	CCAACTTTGACTGTCTCCACTGGTGAGCCGTTTACAAATATCTCATTGGTCACCCATCCT	34020
Sbjct	33961	 CCAACTTTGACTGTCTCCACTGGTGAGCCGTTTACAAATATCTCATTGGTCACCCATCCT	34020
Query	34021	GCAGAGAGTAGCTCAACTCTTCCCAGGACAACCTCAAGGTTTTCCCACAGTGAATTAGAC	34080
Sbjct	34021	 GCAGAGAGTAGCTCAACTCTTCCCAGGACAACCTCAAGGTTTTCCCACAGTGAATTAGAC	34080
Query	34081	ACTATGCCTTCTACAGTCACCAGTCCTGAGGCAGAATCCAGCTCAGCCATTTCAACTACT	34140
Sbjct	34081	 ACTATGCCTTCTACAGTCACCAGTCCTGAGGCAGAATCCAGCTCAGCCATTTCAACTACT	34140
Query	34141	ATTTACCTGGTATACCAGGTGTGCTGACATCACTGGTCACTAGCTCTGGGAGAGACATC	34200
Sbjct	34141	 ATTTACCTGGTATACCAGGTGTGCTGACATCACTGGTCACTAGCTCTGGGAGAGACATC	34200
Query	34201	AGTGCAACTTTTCCAACAGTGCCTGAGTCCCCACATGAATCAGAGGCAACAGCCTCATGG	34260
Sbjct	34201	 AGTGCAACTTTTCCAACAGTGCCTGAGTCCCCACATGAATCAGAGGCAACAGCCTCATGG	34260
Query	34261	GTTACTCATCCTGCAGTCACCAGCACAACAGTTCCCAGGACAACCCCTAATTATTCTCAT	34320
Sbjct	34261	 GTTACTCATCCTGCAGTCACCAGCACAACAGTTCCCAGGACAACCCCTAATTATTCTCAT	34320
Query	34321	AGTGAACCAGACACCACACCATCAATAGCCACCAGTCCTGGGGCAGAAGCCACTTCAGAT	34380
Sbjct	34321	 AGTGAACCAGACACCACACCATCAATAGCCACCAGTCCTGGGGCAGAAGCCACTTCAGAT	34380
Query	34381	TTTCCAACAATAACTGTCTCACCTGATGTACCAGATATGGTAACCTCACAGGTCACTAGT	34440
Sbjct	34381	 TTTCCAACAATAACTGTCTCACCTGATGTACCAGATATGGTAACCTCACAGGTCACTAGT	34440
Query	34441	TCTGGGACAGACACCAGTATAACTATTCCAACCTCTGACTCTTTCTTCTGGTGAGCCAGAG	34500
Sbjct	34441	 TCTGGGACAGACACCAGTATAACTATTCCAACCTCTGACTCTTTCTTCTGGTGAGCCAGAG	34500
Query	34501	ACCACAACCTCATTTATCACCTATTCTGAGACACACACAAGTTCAGCCATTCCAACCTCTC	34560
Sbjct	34501	 ACCACAACCTCATTTATCACCTATTCTGAGACACACACAAGTTCAGCCATTCCAACCTCTC	34560
Query	34561	CCTGTCTCCCCTGGTGCATCAAAGATGCTGACCTCACTGGTCATCAGTTCTGGGACAGAC	34620
Sbjct	34561	 CCTGTCTCCCCTGGTGCATCAAAGATGCTGACCTCACTGGTCATCAGTTCTGGGACAGAC	34620
Query	34621	AGCACTACAACCTTTCCCAACACTGACGGAGACCCCATATGAACCAGAGACAACAGCCATA	34680
Sbjct	34621	 AGCACTACAACCTTTCCCAACACTGACGGAGACCCCATATGAACCAGAGACAACAGCCATA	34680
Query	34681	CAGCTCATTCATCCTGCAGAGACCAACACAATGGTTCCCAAGACAACCTCCCAAGTTTTCC	34740
Sbjct	34681	 CAGCTCATTCATCCTGCAGAGACCAACACAATGGTTCCCAAGACAACCTCCCAAGTTTTCC	34740
Query	34741	CATAGTAAGTCAGACACCACACTCCCAGTAGCCATCACCAGTCCTGGGCCAGAAGCCAGT	34800
Sbjct	34741	 CATAGTAAGTCAGACACCACACTCCCAGTAGCCATCACCAGTCCTGGGCCAGAAGCCAGT	34800
Query	34801	TCAGCTGTTTCAACGACAACCTATCTCACCTGATATGTCAGATCTGGTGACCTCACTGGTC	34860
Sbjct	34801	 TCAGCTGTTTCAACGACAACCTATCTCACCTGATATGTCAGATCTGGTGACCTCACTGGTC	34860
Query	34861	CCTAGTTCTGGGACAGACACCAGTACAACCTTCCCAACATTGAGTGAGACCCCATATGAA	34920
Sbjct	34861	 CCTAGTTCTGGGACAGACACCAGTACAACCTTCCCAACATTGAGTGAGACCCCATATGAA	34920

Query	34921	CCAGAGACTACAGTCACGTGGCTCACTCATCCTGCAGAAACCAGCACAAACGGTTTCTGGG	34980
Sbjct	34921	CCAGAGACTACAGTCACGTGGCTCACTCATCCTGCAGAAACCAGCACAAACGGTTTCTGGG	34980
Query	34981	ACAATTCCCAACTTTTCCCATAGGGGATCAGACACTGCACCCTCAATGGTCACCAGTCCT	35040
Sbjct	34981	ACAATTCCCAACTTTTCCCATAGGGGATCAGACACTGCACCCTCAATGGTCACCAGTCCT	35040
Query	35041	GGAGTAGACACGAGGTCAGGTGTTCCAACTACAACCATCCCACCCAGTATACCAGGGGTA	35100
Sbjct	35041	GGAGTAGACACGAGGTCAGGTGTTCCAACTACAACCATCCCACCCAGTATACCAGGGGTA	35100
Query	35101	GTGACCTCACAGGTCACTAGTTCTGCAACAGACACTAGTACAGCTATTCCAACCTTGACT	35160
Sbjct	35101	GTGACCTCACAGGTCACTAGTTCTGCAACAGACACTAGTACAGCTATTCCAACCTTGACT	35160
Query	35161	CCTTCTCCTGGTGAACCAGAGACCACAGCCTCATCAGCTACCCATCCTGGGACACAGACT	35220
Sbjct	35161	CCTTCTCCTGGTGAACCAGAGACCACAGCCTCATCAGCTACCCATCCTGGGACACAGACT	35220
Query	35221	GGCTTCACTGTTCCAATTTCGGACTGTTCCCTCTAGTGAGCCAGATACAATGGCTTCCTGG	35280
Sbjct	35221	GGCTTCACTGTTCCAATTTCGGACTGTTCCCTCTAGTGAGCCAGATACAATGGCTTCCTGG	35280
Query	35281	GTCACCTCATCCTCCACAGACCAGCACACCTGTTTCCAGAACAACCTCCAGTTTTTCCCAT	35340
Sbjct	35281	GTCACCTCATCCTCCACAGACCAGCACACCTGTTTCCAGAACAACCTCCAGTTTTTCCCAT	35340
Query	35341	AGTAGTCCAGATGCCACACCTGTAATGGCCACCAGTCCTAGGACAGAAGCCAGTTCAGCT	35400
Sbjct	35341	AGTAGTCCAGATGCCACACCTGTAATGGCCACCAGTCCTAGGACAGAAGCCAGTTCAGCT	35400
Query	35401	GTACTGACAACAATCTCACCTGGTGCACCAGAGATGGTGACTTCACAGATCACTAGTTCT	35460
Sbjct	35401	GTACTGACAACAATCTCACCTGGTGCACCAGAGATGGTGACTTCACAGATCACTAGTTCT	35460
Query	35461	GGGGCAGCAACCAGTACAACCTGTTCCAACCTTTGACTCATTCTCCTGGTATGCCAGAGACC	35520
Sbjct	35461	GGGGCAGCAACCAGTACAACCTGTTCCAACCTTTGACTCATTCTCCTGGTATGCCAGAGACC	35520
Query	35521	ACAGCCTTATTGAGCACCCATCCCAGAACAGGGACAAGTAAAACATTTCTGCTTCAACT	35580
Sbjct	35521	ACAGCCTTATTGAGCACCCATCCCAGAACAGGGACAAGTAAAACATTTCTGCTTCAACT	35580
Query	35581	GTGTTTCCTCAAGTATCAGAGACCACAGCCTCACTCACCATTAGACCTGGTGCAGAGACT	35640
Sbjct	35581	GTGTTTCCTCAAGTATCAGAGACCACAGCCTCACTCACCATTAGACCTGGTGCAGAGACT	35640
Query	35641	AGCACAGCTCTCCCAACTCAGACAACATCCTCTCTCTTCACCCTACTTGTAAGTGGAAACC	35700
Sbjct	35641	AGCACAGCTCTCCCAACTCAGACAACATCCTCTCTCTTCACCCTACTTGTAAGTGGAAACC	35700
Query	35701	AGCAGAGTTGATCTAAGTCCAACCTGCTTCACCTGGTGTCTTGCAAAAACAGCCCCACTT	35760
Sbjct	35701	AGCAGAGTTGATCTAAGTCCAACCTGCTTCACCTGGTGTCTTGCAAAAACAGCCCCACTT	35760
Query	35761	TCCACCCATCCAGGGACAGAGACCAGCACAAATGATTCCAACCTTCAACTCTTTCCCTTGGT	35820
Sbjct	35761	TCCACCCATCCAGGGACAGAGACCAGCACAAATGATTCCAACCTTCAACTCTTTCCCTTGGT	35820
Query	35821	TTACTAGAGACTACAGGCTTACTGGCCACCAGCTCTTCAGCAGAGACCAGCACGAGTACT	35880
Sbjct	35821	TTACTAGAGACTACAGGCTTACTGGCCACCAGCTCTTCAGCAGAGACCAGCACGAGTACT	35880
Query	35881	CTAACTCTGACTGTTTCCCCTGCTGTCTCTGGGCTTTCAGTGCCTCTATAACAACCTGAT	35940

Sbjct	35881	 CTAACTCTGACTGTTTCCCTGCTGTCTCTGGGCTTTCCAGTGCCTCTATAACAACCTGAT	35940
Query	35941	AAGCCCCAAACTGTGACCTCCTGGAACACAGAAACCTCACCATCTGTAACCTTCAGTTGGA	36000
Sbjct	35941	 AAGCCCCAAACTGTGACCTCCTGGAACACAGAAACCTCACCATCTGTAACCTTCAGTTGGA	36000
Query	36001	CCCCCAGAATTTTCCAGGACTGTCACAGGCACCACTATGACCTTGATAACCATCAGAGATG	36060
Sbjct	36001	 CCCCCAGAATTTTCCAGGACTGTCACAGGCACCACTATGACCTTGATAACCATCAGAGATG	36060
Query	36061	CCAACACCACCTAAAACAGTCATGGAGAAGGAGTGAGTCCAACCACTATCTTGAGAACT	36120
Sbjct	36061	 CCAACACCACCTAAAACAGTCATGGAGAAGGAGTGAGTCCAACCACTATCTTGAGAACT	36120
Query	36121	ACAATGGTTGAAGCCACTAATTTAGCTACCACAGGTTCCAGTCCCCTGTGGCCAAGACA	36180
Sbjct	36121	 ACAATGGTTGAAGCCACTAATTTAGCTACCACAGGTTCCAGTCCCCTGTGGCCAAGACA	36180
Query	36181	ACAACCACCTTCAATACACTGGCTGGAAGCCTCTTTACTCCTCTGACCACACCTGGGATG	36240
Sbjct	36181	 ACAACCACCTTCAATACACTGGCTGGAAGCCTCTTTACTCCTCTGACCACACCTGGGATG	36240
Query	36241	TCCACCTTGGCCTCTGAGAGTGTGACCTCAAGAACAAGTTATAACCATCGGTCCTGGATC	36300
Sbjct	36241	 TCCACCTTGGCCTCTGAGAGTGTGACCTCAAGAACAAGTTATAACCATCGGTCCTGGATC	36300
Query	36301	TCCACCACCAGCAGTTATAACCGTCGGTACTGGACCCCTGCCACCAGCACTCCAGTGACT	36360
Sbjct	36301	 TCCACCACCAGCAGTTATAACCGTCGGTACTGGACCCCTGCCACCAGCACTCCAGTGACT	36360
Query	36361	TCTACATTCTCCCCAGGGATTTCCACATCCTCCATCCCCAGCTCCACAGCAGCCACAGTC	36420
Sbjct	36361	 TCTACATTCTCCCCAGGGATTTCCACATCCTCCATCCCCAGCTCCACAGCAGCCACAGTC	36420
Query	36421	CCATTTCATGGTGCCATTACCCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGAC	36480
Sbjct	36421	 CCATTTCATGGTGCCATTACCCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGAC	36480
Query	36481	ATGCGGCACCCTGGTTCCAGGAAGTTCAACGCCACAGAGAGAGAACTGCAGGGTCTGCTC	36540
Sbjct	36481	 ATGCGGCACCCTGGTTCCAGGAAGTTCAACGCCACAGAGAGAGAACTGCAGGGTCTGCTC	36540
Query	36541	AAACCCTTGTTTCAGGAATAGCAGTCTGGAATACCTCTATTTCAGGCTGCAGACTAGCCTCA	36600
Sbjct	36541	 AAACCCTTGTTTCAGGAATAGCAGTCTGGAATACCTCTATTTCAGGCTGCAGACTAGCCTCA	36600
Query	36601	CTCAGGCCAGAGAAGGATAGCTCAGCCATGGCAGTGGATGCCATCTGCACACATCGCCCT	36660
Sbjct	36601	 CTCAGGCCAGAGAAGGATAGCTCAGCCATGGCAGTGGATGCCATCTGCACACATCGCCCT	36660
Query	36661	GACCCTGAAGACCTCGGACTGGACAGAGAGCGACTGTACTGGGAGCTGAGCAATCTGACA	36720
Sbjct	36661	 GACCCTGAAGACCTCGGACTGGACAGAGAGCGACTGTACTGGGAGCTGAGCAATCTGACA	36720
Query	36721	AATGGCATCCAGGAGCTGGGCCCCTACACCCTGGACCGGAACAGTCTCTATGTCAATGGT	36780
Sbjct	36721	 AATGGCATCCAGGAGCTGGGCCCCTACACCCTGGACCGGAACAGTCTCTATGTCAATGGT	36780
Query	36781	TTCACCCATCGAAGCTCTATGCCCACCACCAGCACTCCTGGGACCTCCACAGTGGATGTG	36840
Sbjct	36781	 TTCACCCATCGAAGCTCTATGCCCACCACCAGCACTCCTGGGACCTCCACAGTGGATGTG	36840
Query	36841	GGAACCTCAGGGACTCCATCCTCCAGCCCCAGCCCCACGGCTGCTGGCCCTCTCCTGATG	36900
Sbjct	36841	 GGAACCTCAGGGACTCCATCCTCCAGCCCCAGCCCCACGGCTGCTGGCCCTCTCCTGATG	36900

Query	36901	CCGTTCAACCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCGTCGCACT	36960
Sbjct	36901	CCGTTCAACCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCGTCGCACT	36960
Query	36961	GGCTCCAGGAAGTTCAACACCATGGAGAGTGTCTGCAGGGTCTGCTCAAGCCCTTGTTT	37020
Sbjct	36961	GGCTCCAGGAAGTTCAACACCATGGAGAGTGTCTGCAGGGTCTGCTCAAGCCCTTGTTT	37020
Query	37021	AAGAACACCAAGTGTGGCCCTCTGTACTCTGGCTGCAGATTGACCTTGCTCAGGCCCCGAG	37080
Sbjct	37021	AAGAACACCAAGTGTGGCCCTCTGTACTCTGGCTGCAGATTGACCTTGCTCAGGCCCCGAG	37080
Query	37081	AAAGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGCCTTGACCCCAAAAGC	37140
Sbjct	37081	AAAGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGCCTTGACCCCAAAAGC	37140
Query	37141	CCTGGACTCAACAGGGAGCAGCTGTACTGGGAGCTAAGCAAACCTGACCAATGACATTGAA	37200
Sbjct	37141	CCTGGACTCAACAGGGAGCAGCTGTACTGGGAGCTAAGCAAACCTGACCAATGACATTGAA	37200
Query	37201	GAGCTGGGCCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCAG	37260
Sbjct	37201	GAGCTGGGCCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCAG	37260
Query	37261	AGCTCTGTGTCCACCACCAGCACTCCTGGGACCTCCACAGTGGATCTCAGAACCTCAGGG	37320
Sbjct	37261	AGCTCTGTGTCCACCACCAGCACTCCTGGGACCTCCACAGTGGATCTCAGAACCTCAGGG	37320
Query	37321	ACTCCATCCTCCCTCTCCAGCCCCACAATTATGGCTGCTGGCCCTCTCCTGGTACCATTTC	37380
Sbjct	37321	ACTCCATCCTCCCTCTCCAGCCCCACAATTATGGCTGCTGGCCCTCTCCTGGTACCATTTC	37380
Query	37381	ACCCTCAACTTCACCATCACCAACCTGCAGTATGGGGAGGACATGGGTCAACCTGGCTCC	37440
Sbjct	37381	ACCCTCAACTTCACCATCACCAACCTGCAGTATGGGGAGGACATGGGTCAACCTGGCTCC	37440
Query	37441	AGGAAGTTCAACACCACAGAGAGGGTCTGCAGGGTCTGCTTGGTCCCATATTCAAGAAC	37500
Sbjct	37441	AGGAAGTTCAACACCACAGAGAGGGTCTGCAGGGTCTGCTTGGTCCCATATTCAAGAAC	37500
Query	37501	ACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTCTCTCAGGTCTGAGAAGGAT	37560
Sbjct	37501	ACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTCTCTCAGGTCTGAGAAGGAT	37560
Query	37561	GGAGCAGCCACTGGAGTGGATGCCATCTGCATCCATCATCTTGACCCCAAAAGCCCTGGA	37620
Sbjct	37561	GGAGCAGCCACTGGAGTGGATGCCATCTGCATCCATCATCTTGACCCCAAAAGCCCTGGA	37620
Query	37621	CTCAACAGAGAGCGGCTGTACTGGGAGCTGAGCCAACTGACCAATGGCATCAAAGAGCTG	37680
Sbjct	37621	CTCAACAGAGAGCGGCTGTACTGGGAGCTGAGCCAACTGACCAATGGCATCAAAGAGCTG	37680
Query	37681	GGCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCGGACCTCT	37740
Sbjct	37681	GGCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCGGACCTCT	37740
Query	37741	GTGCCCACCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGAACCTCAGGGACTCCA	37800
Sbjct	37741	GTGCCCACCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGAACCTCAGGGACTCCA	37800
Query	37801	TTCTCCCTCCCAAGCCCCGCAACTGCTGGCCCTCTCCTGGTGTGTTACCCCTCAACTTC	37860
Sbjct	37801	TTCTCCCTCCCAAGCCCCGCAACTGCTGGCCCTCTCCTGGTGTGTTACCCCTCAACTTC	37860
Query	37861	ACCATCACCAACCTGAAGTATGAGGAGGACATGCATCGCCCTGGCTCCAGGAAGTTCAAC	37920

Sbjct	37861	 ACCATCACCAACCTGAAGTATGAGGAGGACATGCATCGCCCTGGCTCCAGGAAGTTCAAC	37920
Query	37921	ACCACTGAGAGGGTCCTGCAGACTCTGCTTGGTCCTATGTTCAAGAACACCAAGTGTGGC	37980
Sbjct	37921	 ACCACTGAGAGGGTCCTGCAGACTCTGCTTGGTCCTATGTTCAAGAACACCAAGTGTGGC	37980
Query	37981	CTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACT	38040
Sbjct	37981	 CTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACT	38040
Query	38041	GGAGTGGATGCCATCTGCACCCACCGTCTTGACCCCAAAGCCCTGGACTGGACAGAGAG	38100
Sbjct	38041	 GGAGTGGATGCCATCTGCACCCACCGTCTTGACCCCAAAGCCCTGGACTGGACAGAGAG	38100
Query	38101	CAGCTATACTGGGAGCTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGCCCCCTACACC	38160
Sbjct	38101	 CAGCTATACTGGGAGCTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGCCCCCTACACC	38160
Query	38161	CTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATTGGATCCCTGTGCCCCACCAGC	38220
Sbjct	38161	 CTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATTGGATCCCTGTGCCCCACCAGC	38220
Query	38221	AGCACTCCTGGGACCTCCACAGTGGACCTTGGGTGAGGACTCCATCCTCCCTCCCCAGC	38280
Sbjct	38221	 AGCACTCCTGGGACCTCCACAGTGGACCTTGGGTGAGGACTCCATCCTCCCTCCCCAGC	38280
Query	38281	CCCACAGCTGCTGGCCCTCTCCTGGTGCCATTACCCCTCAACTTCACCATCACCAACCTG	38340
Sbjct	38281	 CCCACAGCTGCTGGCCCTCTCCTGGTGCCATTACCCCTCAACTTCACCATCACCAACCTG	38340
Query	38341	CAGTACGAGGAGGACATGCATCACCCAGGCTCCAGGAAGTTCAACACCACGGAGCGGGTC	38400
Sbjct	38341	 CAGTACGAGGAGGACATGCATCACCCAGGCTCCAGGAAGTTCAACACCACGGAGCGGGTC	38400
Query	38401	CTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACCAAGTGTGCGCCTTCTGTACTCTGGC	38460
Sbjct	38401	 CTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACCAAGTGTGCGCCTTCTGTACTCTGGC	38460
Query	38461	TGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATC	38520
Sbjct	38461	 TGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATC	38520
Query	38521	TGCACCCACCGTCTTGACCCCAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAG	38580
Sbjct	38521	 TGCACCCACCGTCTTGACCCCAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAG	38580
Query	38581	CTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGTCCCTACACCCTGGACAGAAACAGT	38640
Sbjct	38581	 CTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGTCCCTACACCCTGGACAGAAACAGT	38640
Query	38641	CTCTATGTCAATGGTTTCACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACC	38700
Sbjct	38641	 CTCTATGTCAATGGTTTCACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACC	38700
Query	38701	TCCACAGTGGACCTTGGGACCTCAGGGACTCCATCCTCCCTCCCCAGCCCTACATCNGCT	38760
Sbjct	38701	 TCCACAGTGGACCTTGGGACCTCAGGGACTCCATCCTCCCTCCCCAGCCCTACATCNGCT	38760
Query	38761	GGCCCTCTCCTGGTNCCNTTCACCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAG	38820
Sbjct	38761	 GGCCCTCTCCTGGTNCCNTTCACCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAG	38820
Query	38821	GACATGCGGCACCCNGGNTCCAGGAAGTTCAACACCACNGAGAGGGTNCTGCAGGGTCTG	38880
Sbjct	38821	 GACATGCGGCACCCNGGNTCCAGGAAGTTCAACACCACNGAGAGGGTNCTGCAGGGTCTG	38880

Query	38881	CTNAAGCCCCTNTTCAAGAGCACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACC	38940
Sbjct	38881	CTNAAGCCCCTNTTCAAGAGCACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACC	38940
Query	38941	TTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGT	39000
Sbjct	38941	TTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGT	39000
Query	39001	CTTGACCCCCAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTG	39060
Sbjct	39001	CTTGACCCCCAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTG	39060
Query	39061	ACCAATGGCATCAAAGAGCTGGGTCCCTACACCCTGGACAGAAACAGTCTCTATGTCAAT	39120
Sbjct	39061	ACCAATGGCATCAAAGAGCTGGGTCCCTACACCCTGGACAGAAACAGTCTCTATGTCAAT	39120
Query	39121	GGTTTCACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCCACAGTGGAC	39180
Sbjct	39121	GGTTTCACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCCACAGTGGAC	39180
Query	39181	CTTGGGACCTCAGGGACTCCATCCTCCCTCCCCAGCCCTACATCTGCTGGCCCTCTCCTG	39240
Sbjct	39181	CTTGGGACCTCAGGGACTCCATCCTCCCTCCCCAGCCCTACATCTGCTGGCCCTCTCCTG	39240
Query	39241	GTGCCATTACCCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCAC	39300
Sbjct	39241	GTGCCATTACCCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCAC	39300
Query	39301	CCAGGCTCCAGGAAGTTCAACACCACGGAGCGGGTCTGCAGGGTCTGCTTGGTCCCATG	39360
Sbjct	39301	CCAGGCTCCAGGAAGTTCAACACCACGGAGCGGGTCTGCAGGGTCTGCTTGGTCCCATG	39360
Query	39361	TTCAAGAACACCAGTGTCGGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCCT	39420
Sbjct	39361	TTCAAGAACACCAGTGTCGGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCCT	39420
Query	39421	GAGAAGAATGGGGCAGCCACTGGAATGGATGCCATCTGCAGCCACCGTCTTGACCCCCAAA	39480
Sbjct	39421	GAGAAGAATGGGGCAGCCACTGGAATGGATGCCATCTGCAGCCACCGTCTTGACCCCCAAA	39480
Query	39481	AGCCCTGGACTCAACAGAGAGCAGCTGTACTGGGAGCTGAGCCAGCTGACCCATGGCATC	39540
Sbjct	39481	AGCCCTGGACTCAACAGAGAGCAGCTGTACTGGGAGCTGAGCCAGCTGACCCATGGCATC	39540
Query	39541	AAAGAGCTGGGCCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCAT	39600
Sbjct	39541	AAAGAGCTGGGCCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCAT	39600
Query	39601	CGGAGCTCTGTGGCCCCCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGACCTCA	39660
Sbjct	39601	CGGAGCTCTGTGGCCCCCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGACCTCA	39660
Query	39661	GGGACTCCATCCTCCCTCCCCAGCCCCACAACAGCTGTTCCCTCTCCTGGTGCCGTTTACC	39720
Sbjct	39661	GGGACTCCATCCTCCCTCCCCAGCCCCACAACAGCTGTTCCCTCTCCTGGTGCCGTTTACC	39720
Query	39721	CTCAACTTTACCATCACCAATCTGCAGTATGGGGAGGACATGCGTCACCCTGGCTCCAGG	39780
Sbjct	39721	CTCAACTTTACCATCACCAATCTGCAGTATGGGGAGGACATGCGTCACCCTGGCTCCAGG	39780
Query	39781	AAGTTCAACACCACAGAGAGGGTCTGCAGGGTCTGCTTGGTCCCTTGTTCAAGAACTCC	39840
Sbjct	39781	AAGTTCAACACCACAGAGAGGGTCTGCAGGGTCTGCTTGGTCCCTTGTTCAAGAACTCC	39840
Query	39841	AGTGTGCGCCCTCTGTACTCTGGCTGCAGACTGATCTCTCTCAGGTCTGAGAAGGATGGG	39900

Sbjct	39841	 AGTGTCTGGCCCTCTGTACTCTGGCTGCAGACTGATCTCTCTCAGGTCTGAGAAGGATGGG	39900
Query	39901	GCAGCCACTGGAGTGGATGCCATCTGCACCCACCACCTTAACCCCTCAAAGCCCTGGACTG	39960
Sbjct	39901	GCAGCCACTGGAGTGGATGCCATCTGCACCCACCACCTTAACCCCTCAAAGCCCTGGACTG	39960
Query	39961	GACAGGGAGCAGCTGTACTGGCAGCTGAGCCAGATGACCAATGGCATCAAAGAGCTGGGC	40020
Sbjct	39961	GACAGGGAGCAGCTGTACTGGCAGCTGAGCCAGATGACCAATGGCATCAAAGAGCTGGGC	40020
Query	40021	CCCTACACCCTGGACCGGAACAGTCTCTACGTCAATGGTTTCACCCATCGGAGCTCTGGG	40080
Sbjct	40021	CCCTACACCCTGGACCGGAACAGTCTCTACGTCAATGGTTTCACCCATCGGAGCTCTGGG	40080
Query	40081	CTCACCACCAGCACTCCTTGGACTTCCACAGTTGACCTTGGAACCTCAGGGACTCCATCC	40140
Sbjct	40081	CTCACCACCAGCACTCCTTGGACTTCCACAGTTGACCTTGGAACCTCAGGGACTCCATCC	40140
Query	40141	CCCGTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCATTACCCCTCAACTTCACC	40200
Sbjct	40141	CCCGTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCATTACCCCTCAACTTCACC	40200
Query	40201	ATCACCAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGATCTAGGAAGTTCAACACC	40260
Sbjct	40201	ATCACCAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGATCTAGGAAGTTCAACACC	40260
Query	40261	ACAGAGAGGGTCTGTCAGGGTCTGCTTAGTCCCATTTTCAAGAACTCCAGTGTTGGCCCT	40320
Sbjct	40261	ACAGAGAGGGTCTGTCAGGGTCTGCTTAGTCCCATTTTCAAGAACTCCAGTGTTGGCCCT	40320
Query	40321	CTGTACTCTGGCTGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGA	40380
Sbjct	40321	CTGTACTCTGGCTGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGA	40380
Query	40381	ATGGATGCTGTCTGCCTCTACCACCCTAATCCCCAAAAGACCTGGACTGGACAGAGAGCAG	40440
Sbjct	40381	ATGGATGCTGTCTGCCTCTACCACCCTAATCCCCAAAAGACCTGGACTGGACAGAGAGCAG	40440
Query	40441	CTGTACTGGGAGCTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCCCTACAGCCTG	40500
Sbjct	40441	CTGTACTGGGAGCTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCCCTACAGCCTG	40500
Query	40501	GACAGGGACAGTCTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGT	40560
Sbjct	40501	GACAGGGACAGTCTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGT	40560
Query	40561	ACTCCTGGGACCTCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGC	40620
Sbjct	40561	ACTCCTGGGACCTCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGC	40620
Query	40621	CACACAGAGCCTGGCCCTCTCCTGATACCATTCACTTTCAACTTTACCATCACCAACCTG	40680
Sbjct	40621	CACACAGAGCCTGGCCCTCTCCTGATACCATTCACTTTCAACTTTACCATCACCAACCTG	40680
Query	40681	CATTATGAGGAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTT	40740
Sbjct	40681	CATTATGAGGAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTT	40740
Query	40741	CTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGC	40800
Sbjct	40741	CTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGC	40800
Query	40801	TGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGAATGGATGCTGTC	40860
Sbjct	40801	TGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGAATGGATGCTGTC	40860



Query	40861	TGCCTCTACCAACCTAATCCCAAAAGACCTGGGCTGGACAGAGAGCAGCTGTACTGGGAG	40920
Sbjct	40861	TGCCTCTACCAACCTAATCCCAAAAGACCTGGGCTGGACAGAGAGCAGCTGTACTGGGAG	40920
Query	40921	CTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCCTACAGCCTGGACAGGGACAGT	40980
Sbjct	40921	CTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCCTACAGCCTGGACAGGGACAGT	40980
Query	40981	CTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGTACTCCTGGGACC	41040
Sbjct	40981	CTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGTACTCCTGGGACC	41040
Query	41041	TCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGCCACACAGAGCCT	41100
Sbjct	41041	TCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGCCACACAGAGCCT	41100
Query	41101	GGCCCTCTCCTGATACCATTCACCTTTCAACTTTACCATCACCAACCTGCATTATGAGGAA	41160
Sbjct	41101	GGCCCTCTCCTGATACCATTCACCTTTCAACTTTACCATCACCAACCTGCATTATGAGGAA	41160
Query	41161	AACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTG	41220
Sbjct	41161	AACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTG	41220
Query	41221	CTCAAGCCCTTGTTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACC	41280
Sbjct	41221	CTCAAGCCCTTGTTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACC	41280
Query	41281	TTGCTCAGACCTGAGAAGCATGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGC	41340
Sbjct	41281	TTGCTCAGACCTGAGAAGCATGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGC	41340
Query	41341	GTTGATCCCATCGGACCTGGACTGGACAGGGAGCGGCTATACTGGGAGCTGAGCCAGCTG	41400
Sbjct	41341	GTTGATCCCATCGGACCTGGACTGGACAGGGAGCGGCTATACTGGGAGCTGAGCCAGCTG	41400
Query	41401	ACCAACAGCATTACCGAACTGGGACCCTACACCCTGGACAGGGACAGTCTCTATGTCAAT	41460
Sbjct	41401	ACCAACAGCATTACCGAACTGGGACCCTACACCCTGGACAGGGACAGTCTCTATGTCAAT	41460
Query	41461	GGCTTCAACCCTCGGAGCTCTGTGCCAACCACCAGCACTCCTGGGACCTCCACAGTGCAC	41520
Sbjct	41461	GGCTTCAACCCTCGGAGCTCTGTGCCAACCACCAGCACTCCTGGGACCTCCACAGTGCAC	41520
Query	41521	CTGGCAACCTCTGGGACTCCATCCTCCCTGCCTGGCCACACAGCCCCTGTCCCTCTCTTG	41580
Sbjct	41521	CTGGCAACCTCTGGGACTCCATCCTCCCTGCCTGGCCACACAGCCCCTGTCCCTCTCTTG	41580
Query	41581	ATACCATTACCCTCAACTTTACCATCACCAACCTGCATTATGAGGAAAACATGCAACAC	41640
Sbjct	41581	ATACCATTACCCTCAACTTTACCATCACCAACCTGCATTATGAGGAAAACATGCAACAC	41640
Query	41641	CCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTG	41700
Sbjct	41641	CCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTG	41700
Query	41701	TTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCT	41760
Sbjct	41701	TTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCT	41760
Query	41761	GAGAAGCATGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATC	41820
Sbjct	41761	GAGAAGCATGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATC	41820
Query	41821	GGACCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	41880

Sbjct	41821	 GGACCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	41880
Query	41881	NNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	41940
Sbjct	41881	 NNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	41940
Query	41941	CNGANCTCTGNCCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	42000
Sbjct	41941	 CNGANCTCTGNCCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	42000
Query	42001	GGGACTCCATCCTCCNTCCCCNGCCNCACATCTGCTGGCCCTCTCCTGGTGCCATTACCC	42060
Sbjct	42001	 GGGACTCCATCCTCCNTCCCCNGCCNCACATCTGCTGGCCCTCTCCTGGTGCCATTACCC	42060
Query	42061	CTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCACCCAGGCTCCAGG	42120
Sbjct	42061	 CTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCACCCAGGCTCCAGG	42120
Query	42121	AAGTTCAACACCACGGAGCGGGTCCTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACC	42180
Sbjct	42121	 AAGTTCAACACCACGGAGCGGGTCCTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACC	42180
Query	42181	AGTGTGCGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGG	42240
Sbjct	42181	 AGTGTGCGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGG	42240
Query	42241	GCAGCCACTGGAATGGATGCCATCTGCAGCCACCGTCTTGACCCCCAAAAGCCCTGGACTC	42300
Sbjct	42241	 GCAGCCACTGGAATGGATGCCATCTGCAGCCACCGTCTTGACCCCCAAAAGCCCTGGACTC	42300
Query	42301	GACAGAGAGCAGCTGTACTGGGAGCTGAGCCAGCTGACCCATGGCATCAAAGAGCTGGGC	42360
Sbjct	42301	 GACAGAGAGCAGCTGTACTGGGAGCTGAGCCAGCTGACCCATGGCATCAAAGAGCTGGGC	42360
Query	42361	CCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCGGAGCTCTGTG	42420
Sbjct	42361	 CCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCGGAGCTCTGTG	42420
Query	42421	GCCCCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGACCTCAGGGACTCCATCC	42480
Sbjct	42421	 GCCCCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGACCTCAGGGACTCCATCC	42480
Query	42481	TCCCTCCCCAGCCCCACAACAGCTGTTCCCTCTCCTGGTGCCGTTACCCCTCAACTTTACC	42540
Sbjct	42481	 TCCCTCCCCAGCCCCACAACAGCTGTTCCCTCTCCTGGTGCCGTTACCCCTCAACTTTACC	42540
Query	42541	ATCACCAATCTGCAGTATGGGGAGGACATGCGTCACCCTGGCTCCAGGAAGTTCAACACC	42600
Sbjct	42541	 ATCACCAATCTGCAGTATGGGGAGGACATGCGTCACCCTGGCTCCAGGAAGTTCAACACC	42600
Query	42601	ACAGAGAGGGTCCTGCAGGGTCTGCTTGGTCCCTTGTTCAAGAACTCCAGTGTGCGCCCT	42660
Sbjct	42601	 ACAGAGAGGGTCCTGCAGGGTCTGCTTGGTCCCTTGTTCAAGAACTCCAGTGTGCGCCCT	42660
Query	42661	CTGTACTCTGGCTGCAGACTGATCTCTCTCAGGTCTGAGAAGGATGGGGCAGCCACTGGA	42720
Sbjct	42661	 CTGTACTCTGGCTGCAGACTGATCTCTCTCAGGTCTGAGAAGGATGGGGCAGCCACTGGA	42720
Query	42721	GTGGATGCCATCTGCACCCACCACCTTAACCCTCAAAGCCCTGGACTGGACAGGGAGCAG	42780
Sbjct	42721	 GTGGATGCCATCTGCACCCACCACCTTAACCCTCAAAGCCCTGGACTGGACAGGGAGCAG	42780
Query	42781	CTGTACTGGCAGCTGAGCCAGATGACCAATGGCATCAAAGAGCTGGGCCCTACACCCTG	42840
Sbjct	42781	 CTGTACTGGCAGCTGAGCCAGATGACCAATGGCATCAAAGAGCTGGGCCCTACACCCTG	42840

Query	42841	GACCGGAACAGTCTCTACGTCAATGGTTTCACCCATCGGAGCTCTGGGCTCACCACCAGC	42900
Sbjct	42841	GACCGGAACAGTCTCTACGTCAATGGTTTCACCCATCGGAGCTCTGGGCTCACCACCAGC	42900
Query	42901	ACTCCTTGGAAGTTCACAGTTGACCTTGGAACCTCAGGGACTCCATCCCCCGTCCCCAGC	42960
Sbjct	42901	ACTCCTTGGAAGTTCACAGTTGACCTTGGAACCTCAGGGACTCCATCCCCCGTCCCCAGC	42960
Query	42961	CCCACAAGTCTGGCCCTCTCCTGGTGCCATTACCCCTAAACTTCACCATCACCAACCTG	43020
Sbjct	42961	CCCACAAGTCTGGCCCTCTCCTGGTGCCATTACCCCTAAACTTCACCATCACCAACCTG	43020
Query	43021	CAGTATGAGGAGGACATGCATCGCCCTGGATCTAGGAAGTTCAACGCCACAGAGAGGGTC	43080
Sbjct	43021	CAGTATGAGGAGGACATGCATCGCCCTGGATCTAGGAAGTTCAACGCCACAGAGAGGGTC	43080
Query	43081	CTGCAGGGTCTGCTTAGTCCCATATTCAAGAACTCCAGTGTGGCCCTCTGTACTCTGGC	43140
Sbjct	43081	CTGCAGGGTCTGCTTAGTCCCATATTCAAGAACTCCAGTGTGGCCCTCTGTACTCTGGC	43140
Query	43141	TGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGAATGGATGCTGTC	43200
Sbjct	43141	TGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGAATGGATGCTGTC	43200
Query	43201	TGCCTCTACCAACCTAATCCCAAAAGACCTGGACTGGACAGAGAGCAGCTGTACTGGGAG	43260
Sbjct	43201	TGCCTCTACCAACCTAATCCCAAAAGACCTGGACTGGACAGAGAGCAGCTGTACTGGGAG	43260
Query	43261	CTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCTACAGCCTGGACAGGGACAGT	43320
Sbjct	43261	CTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCTACAGCCTGGACAGGGACAGT	43320
Query	43321	CTCTATGTCAATGGTTTCACCCATCAGAGCTCTATGACGACCACCAGAACTCCTGATACC	43380
Sbjct	43321	CTCTATGTCAATGGTTTCACCCATCAGAGCTCTATGACGACCACCAGAACTCCTGATACC	43380
Query	43381	TCCACAATGCACCTGGCAACCTCGAGAACTCCAGCCTCCCTGTCTGGACCTACGACCGCC	43440
Sbjct	43381	TCCACAATGCACCTGGCAACCTCGAGAACTCCAGCCTCCCTGTCTGGACCTACGACCGCC	43440
Query	43441	AGCCCTCTCCTGGTGCTATTACAAATCAACTGCACCATCACCAACCTGCAGTACGAGGAG	43500
Sbjct	43441	AGCCCTCTCCTGGTGCTATTACAAATCAACTGCACCATCACCAACCTGCAGTACGAGGAG	43500
Query	43501	GACATGCGTCGCACTGGCTCCAGGAAGTTCAACACCATGGAGAGTGTCTGCAGGGTCTG	43560
Sbjct	43501	GACATGCGTCGCACTGGCTCCAGGAAGTTCAACACCATGGAGAGTGTCTGCAGGGTCTG	43560
Query	43561	CTCAAGCCCTTGTTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGATTGACC	43620
Sbjct	43561	CTCAAGCCCTTGTTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGATTGACC	43620
Query	43621	TTGCTCAGGCCCCAAGAAAGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGC	43680
Sbjct	43621	TTGCTCAGGCCCCAAGAAAGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGC	43680
Query	43681	CTTGACCCCCAAAAGCCCTGGACTCAACAGGGAGCAGCTGTACTGGGAGCTAAGCAAAGT	43740
Sbjct	43681	CTTGACCCCCAAAAGCCCTGGACTCAACAGGGAGCAGCTGTACTGGGAGCTAAGCAAAGT	43740
Query	43741	ACCAATGACATTGAAGAGCTGGGCCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAAT	43800
Sbjct	43741	ACCAATGACATTGAAGAGCTGGGCCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAAT	43800
Query	43801	GGTTTCACCCATCAGAGCTCTGTGTCCACCACCAGCACTCCTGGGACCTCCACAGTGGAT	43860

Sbjct	43801	 GGTTTCACCCATCAGAGCTCTGTGTCCACCACCAGCACTCCTGGGACCTCCACAGTGGAT	43860
Query	43861	CTCAGAACCTCAGGGACTCCATCCTCCCTCTCCAGCCCCACAATTATGNCNNCTGNCCCT	43920
Sbjct	43861	 CTCAGAACCTCAGGGACTCCATCCTCCCTCTCCAGCCCCACAATTATGNCNNCTGNCCCT	43920
Query	43921	CTCCTGNTNCCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATG	43980
Sbjct	43921	 CTCCTGNTNCCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATG	43980
Query	43981	CNNCNCNCNGGNTCCAGGAAGTTCAACACCACNGAGAGGGTCTACAGGGTCTGCTCAGG	44040
Sbjct	43981	 CNNCNCNCNGGNTCCAGGAAGTTCAACACCACNGAGAGGGTCTACAGGGTCTGCTCAGG	44040
Query	44041	CCCTTGTTCAAGAACACCAGTGTGAGCTCTCTGTACTCTGGTTGCAGACTGACCTTGCTC	44100
Sbjct	44041	 CCCTTGTTCAAGAACACCAGTGTGAGCTCTCTGTACTCTGGTTGCAGACTGACCTTGCTC	44100
Query	44101	AGGCCTGAGAAGGATGGGGCAGCCACCAGAGTGGATGCTGCCTGCACCTACCGCCCTGAT	44160
Sbjct	44101	 AGGCCTGAGAAGGATGGGGCAGCCACCAGAGTGGATGCTGCCTGCACCTACCGCCCTGAT	44160
Query	44161	CCCAAAAGCCCTGGACTGGACAGAGAGCAACTATACTGGGAGCTGAGCCAGCTAACCCAC	44220
Sbjct	44161	 CCCAAAAGCCCTGGACTGGACAGAGAGCAACTATACTGGGAGCTGAGCCAGCTAACCCAC	44220
Query	44221	AGCATCACTGAGCTGGGACCCCTACACCCTGGACAGGGTCAGTCTCTATGTCAATGGCTTC	44280
Sbjct	44221	 AGCATCACTGAGCTGGGACCCCTACACCCTGGACAGGGTCAGTCTCTATGTCAATGGCTTC	44280
Query	44281	AACCCCTCGGAGCTCTGTGCCAACCACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCA	44340
Sbjct	44281	 AACCCCTCGGAGCTCTGTGCCAACCACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCA	44340
Query	44341	ACCTCTGGGACTCCATCCTCCCTGCCTGGCCACACANCNNCTGNCCCTCTCCTGNTNCCN	44400
Sbjct	44341	 ACCTCTGGGACTCCATCCTCCCTGCCTGGCCACACANCNNCTGNCCCTCTCCTGNTNCCN	44400
Query	44401	TTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCNGGN	44460
Sbjct	44401	 TTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCNGGN	44460
Query	44461	TCCAGGAAGTTCAACACCACNGAGAGGGTTCTGCAGGGTCTGCTCAAACCCCTTGTTTCAGG	44520
Sbjct	44461	 TCCAGGAAGTTCAACACCACNGAGAGGGTTCTGCAGGGTCTGCTCAAACCCCTTGTTTCAGG	44520
Query	44521	AATAGCAGTCTGGAATACCTCTATTTCAGGCTGCAGACTAGCCTCACTCAGGCCAGAGAAG	44580
Sbjct	44521	 AATAGCAGTCTGGAATACCTCTATTTCAGGCTGCAGACTAGCCTCACTCAGGCCAGAGAAG	44580
Query	44581	GATAGCTCAGCCATGGCAGTGGATGCCATCTGCACACATCGCCCTGACCCTGAAGACCTC	44640
Sbjct	44581	 GATAGCTCAGCCATGGCAGTGGATGCCATCTGCACACATCGCCCTGACCCTGAAGACCTC	44640
Query	44641	GGACTGGACAGAGAGCGACTGTACTGGGAGCTGAGCAATCTGACAAATGGCATCCAGGAG	44700
Sbjct	44641	 GGACTGGACAGAGAGCGACTGTACTGGGAGCTGAGCAATCTGACAAATGGCATCCAGGAG	44700
Query	44701	CTGGGCCCCCTACACCCTGGACCGGAACAGTCTCTACGTCAATGGTTTCACCCATCGGAGC	44760
Sbjct	44701	 CTGGGCCCCCTACACCCTGGACCGGAACAGTCTCTACGTCAATGGTTTCACCCATCGGAGC	44760
Query	44761	TCTGGGCTCACCACCAGCACTCCTTGGAAGTTCCACAGTTGACCTTGGAACCTCAGGGACT	44820
Sbjct	44761	 TCTGGGCTCACCACCAGCACTCCTTGGAAGTTCCACAGTTGACCTTGGAACCTCAGGGACT	44820

Query	44821	CCATCCCCCGTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCATTCAACCTCAAC	44880
Sbjct	44821	CCATCCCCCGTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCATTCAACCTCAAC	44880
Query	44881	TTCACCATCACCAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGTTCCAGGAGGTTT	44940
Sbjct	44881	TTCACCATCACCAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGTTCCAGGAGGTTT	44940
Query	44941	AACACCACGGAGAGGGTTCTGCAGGGTCTGCTCACGCCCTTGTTCAAGAACACCAGTGTT	45000
Sbjct	44941	AACACCACGGAGAGGGTTCTGCAGGGTCTGCTCACGCCCTTGTTCAAGAACACCAGTGTT	45000
Query	45001	GGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAGCAAGAGGCAGCC	45060
Sbjct	45001	GGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAGCAAGAGGCAGCC	45060
Query	45061	ACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATCGGACCTGGACTGGACAGA	45120
Sbjct	45061	ACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATCGGACCTGGACTGGACAGA	45120
Query	45121	GAGCGGCTATACTGGGAGCTGAGCCAGCTGACCAACAGCATCACAGAGCTGGGACCCTAC	45180
Sbjct	45121	GAGCGGCTATACTGGGAGCTGAGCCAGCTGACCAACAGCATCACAGAGCTGGGACCCTAC	45180
Query	45181	ACCCTGGATAGGGACAGTCTCTATGTCAATGGCTTCAACCCCTGGAGCTCTGTGCCAACC	45240
Sbjct	45181	ACCCTGGATAGGGACAGTCTCTATGTCAATGGCTTCAACCCCTGGAGCTCTGTGCCAACC	45240
Query	45241	ACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCCTCCCTG	45300
Sbjct	45241	ACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCCTCCCTG	45300
Query	45301	CCTGGCCACACAGCCCCGTGCCCTCTCTTGATACCATTACCCCTCAACTTTACCATCACC	45360
Sbjct	45301	CCTGGCCACACAGCCCCGTGCCCTCTCTTGATACCATTACCCCTCAACTTTACCATCACC	45360
Query	45361	GACCTGCATTATGAAGAAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAG	45420
Sbjct	45361	GACCTGCATTATGAAGAAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAG	45420
Query	45421	AGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGCGTTGGCCCTCTGTAC	45480
Sbjct	45421	AGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGCGTTGGCCCTCTGTAC	45480
Query	45481	TCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGGGCAGCCACTGGAGTGGAC	45540
Sbjct	45481	TCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGGGCAGCCACTGGAGTGGAC	45540
Query	45541	GCCATCTGCACCCTCCGCCTTGATCCCACTGGTCTGGACTGGACAGAGAGCGGCTATAC	45600
Sbjct	45541	GCCATCTGCACCCTCCGCCTTGATCCCACTGGTCTGGACTGGACAGAGAGCGGCTATAC	45600
Query	45601	TGGGAGCTGAGCCAGCTGACCAACAGCGTTACAGAGCTGGGCCCCCTACACCCTGGACAGG	45660
Sbjct	45601	TGGGAGCTGAGCCAGCTGACCAACAGCGTTACAGAGCTGGGCCCCCTACACCCTGGACAGG	45660
Query	45661	GACAGTCTCTATGTCAATGGCTTCACCCATCGGAGCTCTGTGCCAACCACAGTATTCTT	45720
Sbjct	45661	GACAGTCTCTATGTCAATGGCTTCACCCATCGGAGCTCTGTGCCAACCACAGTATTCTT	45720
Query	45721	GGGACCTCTGCAGTGCACCTGGAAACCTCTGGGACTCCAGCCTCCCTCCCTGGCCACACA	45780
Sbjct	45721	GGGACCTCTGCAGTGCACCTGGAAACCTCTGGGACTCCAGCCTCCCTCCCTGGCCACACA	45780
Query	45781	GCCCTGGCCCTCTCCTGGTGCCATTACCCCTCAACTTCACTATACCAACCTGCAGTAT	45840

Sbjct	45781	 GCCCCCTGGCCCTCTCCTGGTGCCATTACCCCTCAACTTCACCTATCACCAACCTGCAGTAT	45840
Query	45841	GAGGAGGACATGCGTCACCCTGGTTCCAGGAAGTTCAGCACCACGGAGAGAGTCCTGCAG	45900
Sbjct	45841	 GAGGAGGACATGCGTCACCCTGGTTCCAGGAAGTTCAGCACCACGGAGAGAGTCCTGCAG	45900
Query	45901	GGTCTGCTCAAGCCCTTGTTCAAGAACACCAGTGTGAGCTCTCTGTACTCTGGTTGCAGA	45960
Sbjct	45901	 GGTCTGCTCAAGCCCTTGTTCAAGAACACCAGTGTGAGCTCTCTGTACTCTGGTTGCAGA	45960
Query	45961	CTGACCTTGCTCAGGCCCTGAGAAGGATGGGGCAGCCACCAGAGTGGATGCTGTCTGCACC	46020
Sbjct	45961	 CTGACCTTGCTCAGGCCCTGAGAAGGATGGGGCAGCCACCAGAGTGGATGCTGTCTGCACC	46020
Query	46021	CATCGTCCTGACCCCCAAAAGCCCTGGACTGGACAGAGAGCGGCTGTACTGGAAGCTGAGC	46080
Sbjct	46021	 CATCGTCCTGACCCCCAAAAGCCCTGGACTGGACAGAGAGCGGCTGTACTGGAAGCTGAGC	46080
Query	46081	CAGCTGACCCACGGCATCACTGAGCTGGGCCCCCTACACCCTGGACAGGCACAGTCTCTAT	46140
Sbjct	46081	 CAGCTGACCCACGGCATCACTGAGCTGGGCCCCCTACACCCTGGACAGGCACAGTCTCTAT	46140
Query	46141	GTCAATGGTTTCACCCATCAGAGCTCTATGACGACCACCAGAACTCCTGATACCTCCACA	46200
Sbjct	46141	 GTCAATGGTTTCACCCATCAGAGCTCTATGACGACCACCAGAACTCCTGATACCTCCACA	46200
Query	46201	ATGCACCTGGCAACCTCGAGAACTCCAGCCTCCCTGTCTGGACCTACGACCGCCAGCCCT	46260
Sbjct	46201	 ATGCACCTGGCAACCTCGAGAACTCCAGCCTCCCTGTCTGGACCTACGACCGCCAGCCCT	46260
Query	46261	CTCCTGGTGCTATTACAAATTAAGTTTCACTTACCATCACTAACCTGCGGTATGAGGAGAACATG	46320
Sbjct	46261	 CTCCTGGTGCTATTACAAATTAAGTTTCACTTACCATCACTAACCTGCGGTATGAGGAGAACATG	46320
Query	46321	CATCACCTGGCTCTAGAAAGTTTAACACCACGGAGAGAGTCCTTCAGGGTCTGCTCAGG	46380
Sbjct	46321	 CATCACCTGGCTCTAGAAAGTTTAACACCACGGAGAGAGTCCTTCAGGGTCTGCTCAGG	46380
Query	46381	CCTGTGTTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCACGCTC	46440
Sbjct	46381	 CCTGTGTTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCACGCTC	46440
Query	46441	AGGCCCAAGAAGGATGGGGCAGCCACCAAAGTGGATGCCATCTGCACCTACCGCCCTGAT	46500
Sbjct	46441	 AGGCCCAAGAAGGATGGGGCAGCCACCAAAGTGGATGCCATCTGCACCTACCGCCCTGAT	46500
Query	46501	CCCCAAAGCCCTGGACTGGACAGAGAGCAGCTATACTGGGAGCTGAGCCAGCTAACCCAC	46560
Sbjct	46501	 CCCCAAAGCCCTGGACTGGACAGAGAGCAGCTATACTGGGAGCTGAGCCAGCTAACCCAC	46560
Query	46561	AGCATCACTGAGCTGGGCCCCCTACACCCAGGACAGGGACAGTCTCTATGTCAATGGCTTC	46620
Sbjct	46561	 AGCATCACTGAGCTGGGCCCCCTACACCCAGGACAGGGACAGTCTCTATGTCAATGGCTTC	46620
Query	46621	ACCCATCGGAGCTCTGTGCCAACCACCAGTATTCTGGGACCTCTGCAGTGCACCTGGAA	46680
Sbjct	46621	 ACCCATCGGAGCTCTGTGCCAACCACCAGTATTCTGGGACCTCTGCAGTGCACCTGGAA	46680
Query	46681	ACCTCTGGGACTCCAGCCTCCCTCCCTGGCCACACAGCCCCCTGGCCCTCTCCTGGTGCCA	46740
Sbjct	46681	 ACCTCTGGGACTCCAGCCTCCCTCCCTGGCCACACAGCCCCCTGGCCCTCTCCTGGTGCCA	46740
Query	46741	TTCACCCTCAACTTCACTATCACCAACCTGCAGTATGAGGAGGACATGCGTCACCCTGGT	46800
Sbjct	46741	 TTCACCCTCAACTTCACTATCACCAACCTGCAGTATGAGGAGGACATGCGTCACCCTGGT	46800

Query	46801	TCCAGGAAGTTCAACACCACGGAGAGAGTCCTGCAGGGTCTGCTCAAGCCCTTGTTCAAG	46860
Sbjct	46801	TCCAGGAAGTTCAACACCACGGAGAGAGTCCTGCAGGGTCTGCTCAAGCCCTTGTTCAAG	46860
Query	46861	AGCACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAAAAA	46920
Sbjct	46861	AGCACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAAAAA	46920
Query	46921	CGTGGGGCAGCCACCGGCGTGGACACCATCTGCACTCACCGCCTTGACCCTCTAAACCCA	46980
Sbjct	46921	CGTGGGGCAGCCACCGGCGTGGACACCATCTGCACTCACCGCCTTGACCCTCTAAACCCA	46980
Query	46981	GGACTGGACAGAGAGCAGCTATACTGGGAGCTGAGCAAACCTGACCCGTGGCATCATCGAG	47040
Sbjct	46981	GGACTGGACAGAGAGCAGCTATACTGGGAGCTGAGCAAACCTGACCCGTGGCATCATCGAG	47040
Query	47041	CTGGGCCCCCTACCTCCTGGACAGAGGCAGTCTCTATGTCAATGGTTTCACCCATCGGACC	47100
Sbjct	47041	CTGGGCCCCCTACCTCCTGGACAGAGGCAGTCTCTATGTCAATGGTTTCACCCATCGGACC	47100
Query	47101	TCTGTGCCCACCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGAACCTCAGGGACT	47160
Sbjct	47101	TCTGTGCCCACCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGAACCTCAGGGACT	47160
Query	47161	CCATTCTCCCTCCCAAGCCCCGCANCNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAAC	47220
Sbjct	47161	CCATTCTCCCTCCCAAGCCCCGCANCNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAAC	47220
Query	47221	TTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCCNGGNTCCAGGAAGTTC	47280
Sbjct	47221	TTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCCNGGNTCCAGGAAGTTC	47280
Query	47281	AACACCACNGAGAGGGTCCTGCAGACTCTGCTTGGTCCTATGTTCAAGAACACCAGTGTT	47340
Sbjct	47281	AACACCACNGAGAGGGTCCTGCAGACTCTGCTTGGTCCTATGTTCAAGAACACCAGTGTT	47340
Query	47341	GGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCC	47400
Sbjct	47341	GGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCC	47400
Query	47401	ACTGGAGTGGATGCCATCTGCACCCACCGTCTTGACCCCAAAGCCCTGGAGTGGACAGG	47460
Sbjct	47401	ACTGGAGTGGATGCCATCTGCACCCACCGTCTTGACCCCAAAGCCCTGGAGTGGACAGG	47460
Query	47461	GAGCAACTATACTGGGAGCTGAGCCAGCTGACCAATGGCATTAAAGAACTGGGCCCCCTAC	47520
Sbjct	47461	GAGCAACTATACTGGGAGCTGAGCCAGCTGACCAATGGCATTAAAGAACTGGGCCCCCTAC	47520
Query	47521	ACCCTGGACAGGAACAGTCTCTATGTCAATGGGTTACCCATTGGATCCCTGTGCCACC	47580
Sbjct	47521	ACCCTGGACAGGAACAGTCTCTATGTCAATGGGTTACCCATTGGATCCCTGTGCCACC	47580
Query	47581	AGCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGTGAGGACTCCATCCTCCCTCCCC	47640
Sbjct	47581	AGCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGTGAGGACTCCATCCTCCCTCCCC	47640
Query	47641	AGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCGTTACCCCTCAACTTCACCATCACCAAC	47700
Sbjct	47641	AGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCGTTACCCCTCAACTTCACCATCACCAAC	47700
Query	47701	CTGAAGTACGAGGAGGACATGCATTGCCCTGGCTCCAGGAAGTTCAACACCACAGAGAGA	47760
Sbjct	47701	CTGAAGTACGAGGAGGACATGCATTGCCCTGGCTCCAGGAAGTTCAACACCACAGAGAGA	47760
Query	47761	GTCCTGCAGAGTCTGCTTGGTCCCATGTTCAAGAACACCAGTGTGGCCCTCTGTACTCT	47820

Sbjct	47761	 GTCCTGCAGAGTCTGCTTGGTCCCATGTTCAAGAACACCAGTGTGGCCCTCTGTACTCT	47820
Query	47821	GGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCC	47880
Sbjct	47821	 GGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCC	47880
Query	47881	ATCTGCACCCACCGTCTTGACCCCAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGG	47940
Sbjct	47881	 ATCTGCACCCACCGTCTTGACCCCAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGG	47940
Query	47941	GAGCTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGTCCCTACACCCTGGACAGAAAC	48000
Sbjct	47941	 GAGCTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGTCCCTACACCCTGGACAGAAAC	48000
Query	48001	AGTCTCTATGTCAATGGTTTCACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGG	48060
Sbjct	48001	 AGTCTCTATGTCAATGGTTTCACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGG	48060
Query	48061	ACCTCCACAGTGGACCTTGGGACCTCAGGGACTCCATCCTCCCTCCCCAGCCCTACANCN	48120
Sbjct	48061	 ACCTCCACAGTGGACCTTGGGACCTCAGGGACTCCATCCTCCCTCCCCAGCCCTACANCN	48120
Query	48121	NCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNG	48180
Sbjct	48121	 NCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNG	48180
Query	48181	GANNACATGCNNCNCNCCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNCTGCAGGGT	48240
Sbjct	48181	 GANNACATGCNNCNCNCCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNCTGCAGGGT	48240
Query	48241	CTGCTNNNNCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTG	48300
Sbjct	48241	 CTGCTNNNNCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTG	48300
Query	48301	ACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCAC	48360
Sbjct	48301	 ACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCAC	48360
Query	48361	CNNCNTNANCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCAN	48420
Sbjct	48361	 CNNCNTNANCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCAN	48420
Query	48421	CTGACCAANNNCATCNNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTC	48480
Sbjct	48421	 CTGACCAANNNCATCNNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTC	48480
Query	48481	AATGGTTTCACCCATTGGATCCCTGTGCCCACCAGCAGCACTCCTGGGACCTCCACAGTG	48540
Sbjct	48481	 AATGGTTTCACCCATTGGATCCCTGTGCCCACCAGCAGCACTCCTGGGACCTCCACAGTG	48540
Query	48541	GACCTTGGGTGAGGGACTCCATCCTCCCTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTG	48600
Sbjct	48541	 GACCTTGGGTGAGGGACTCCATCCTCCCTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTG	48600
Query	48601	GTGCCGTTACCCCTCAACTTCACCATCACCAACCTGAAGTACGAGGAGGACATGCATTGC	48660
Sbjct	48601	 GTGCCGTTACCCCTCAACTTCACCATCACCAACCTGAAGTACGAGGAGGACATGCATTGC	48660
Query	48661	CCTGGCTCCAGGAAGTTCAACACCACAGAGAGAGTCTGCAGAGTCTGCTTGGTCCCATG	48720
Sbjct	48661	 CCTGGCTCCAGGAAGTTCAACACCACAGAGAGAGTCTGCAGAGTCTGCTTGGTCCCATG	48720
Query	48721	TTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTCGCTCAGGTCC	48780
Sbjct	48721	 TTCAAGAACACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTCGCTCAGGTCC	48780



Query	48781	GAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGTGTGACCCCAAA	48840
Sbjct	48781	GAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGTGTGACCCCAAA	48840
Query	48841	AGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTGACCAATGGCATC	48900
Sbjct	48841	AGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTGACCAATGGCATC	48900
Query	48901	AAAGAGCTGGGTCCCTACACCCTGGACAGAAACAGTCTCTATGTCAATGGTTTCACCCAT	48960
Sbjct	48901	AAAGAGCTGGGTCCCTACACCCTGGACAGAAACAGTCTCTATGTCAATGGTTTCACCCAT	48960
Query	48961	CAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	49020
Sbjct	48961	CAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	49020
Query	49021	GGGACTCCATCCTCCNTCCCCNGCCNCACATCTGCTGGCCCTCTCCTGGTGCCATTACCC	49080
Sbjct	49021	GGGACTCCATCCTCCNTCCCCNGCCNCACATCTGCTGGCCCTCTCCTGGTGCCATTACCC	49080
Query	49081	CTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCACCCAGGCTCCAGG	49140
Sbjct	49081	CTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCACCCAGGCTCCAGG	49140
Query	49141	AAGTTCAACACCACGGAGCGGGTCTGCTGGTCCCATGTTCAAGAACACC	49200
Sbjct	49141	AAGTTCAACACCACGGAGCGGGTCTGCTGGTCCCATGTTCAAGAACACC	49200
Query	49201	AGTGTGCGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGG	49260
Sbjct	49201	AGTGTGCGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGG	49260
Query	49261	GCAACCACTGGAATGGATGCCATCTGCACCCACCGTCTTGACCCCAAAAGCCCTGGACTG	49320
Sbjct	49261	GCAACCACTGGAATGGATGCCATCTGCACCCACCGTCTTGACCCCAAAAGCCCTGGACTG	49320
Query	49321	NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGN	49380
Sbjct	49321	NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGN	49380
Query	49381	CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNG	49440
Sbjct	49381	CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNG	49440
Query	49441	CCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCC	49500
Sbjct	49441	CCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCC	49500
Query	49501	TCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACC	49560
Sbjct	49501	TCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACC	49560
Query	49561	ATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCCNGGNTCCAGGAAGTTCAACACC	49620
Sbjct	49561	ATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCCNGGNTCCAGGAAGTTCAACACC	49620
Query	49621	ACNGAGAGGGTTCTGCAGGGTCTGCTCAAACCTTGTTTCAGGAATAGCAGTCTGGAATAC	49680
Sbjct	49621	ACNGAGAGGGTTCTGCAGGGTCTGCTCAAACCTTGTTTCAGGAATAGCAGTCTGGAATAC	49680
Query	49681	CTCTATTTCAGGCTGCAGACTAGCCTCACTCAGGCCAGAGAAGGATAGCTCAGCCATGGCA	49740
Sbjct	49681	CTCTATTTCAGGCTGCAGACTAGCCTCACTCAGGCCAGAGAAGGATAGCTCAGCCATGGCA	49740
Query	49741	GTGGATGCCATCTGCACACATCGCCCTGACCCTGAAGACCTCGGACTGGACAGAGAGCGA	49800

Sbjct	49741	 GTGGATGCCATCTGCACACATCGCCCTGACCCCTGAAGACCTCGGACTGGACAGAGAGCGA	49800
Query	49801	CTGTACTGGGAGCTGAGCAATCTGACAAATGGCATCCAGGAGCTGGGCCCCCTACACCCTG	49860
Sbjct	49801	 CTGTACTGGGAGCTGAGCAATCTGACAAATGGCATCCAGGAGCTGGGCCCCCTACACCCTG	49860
Query	49861	GACCGGAACAGTCTCTATGTCAATGGTTTCACCCATCGAAGCTCTATGCCCACCACCAGC	49920
Sbjct	49861	 GACCGGAACAGTCTCTATGTCAATGGTTTCACCCATCGAAGCTCTATGCCCACCACCAGC	49920
Query	49921	ACTCCTGGGACCTCCACAGTGGATGTGGGAACCTCAGGGACTCCATCCTCCAGCCCCAGC	49980
Sbjct	49921	 ACTCCTGGGACCTCCACAGTGGATGTGGGAACCTCAGGGACTCCATCCTCCAGCCCCAGC	49980
Query	49981	CCCACGACTGCTGGCCCTCTCCTGATACCATTACCCCTCAACTTCACCATCACCAACCTG	50040
Sbjct	49981	 CCCACGACTGCTGGCCCTCTCCTGATACCATTACCCCTCAACTTCACCATCACCAACCTG	50040
Query	50041	CAGTATGGGGAGGACATGGGTCAACCCTGGCTCCAGGAAGTTCAACACCACAGAGAGGGTC	50100
Sbjct	50041	 CAGTATGGGGAGGACATGGGTCAACCCTGGCTCCAGGAAGTTCAACACCACAGAGAGGGTC	50100
Query	50101	CTGCAGGGTCTGCTTGGTCCCATATTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGC	50160
Sbjct	50101	 CTGCAGGGTCTGCTTGGTCCCATATTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGC	50160
Query	50161	TGCAGACTGACCTCTCTCAGGTCTGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATC	50220
Sbjct	50161	 TGCAGACTGACCTCTCTCAGGTCTGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATC	50220
Query	50221	TGCATCCATCATCTTGACCCCCAAAAGCCCTGGACTCAACAGAGAGCGGCTGTACTGGGAG	50280
Sbjct	50221	 TGCATCCATCATCTTGACCCCCAAAAGCCCTGGACTCAACAGAGAGCGGCTGTACTGGGAG	50280
Query	50281	CTGAGCCAACTGACCAATGGCATCAAAGAGCTGGGCCCCCTACACCCTGGACAGGAACAGT	50340
Sbjct	50281	 CTGAGCCAACTGACCAATGGCATCAAAGAGCTGGGCCCCCTACACCCTGGACAGGAACAGT	50340
Query	50341	CTCTATGTCAATGGTTTCACCCATCGGACCTCTGTGCCCACCACCAGCACTCCTGGGACC	50400
Sbjct	50341	 CTCTATGTCAATGGTTTCACCCATCGGACCTCTGTGCCCACCACCAGCACTCCTGGGACC	50400
Query	50401	TCCACAGTGGACCTTGGAACCTCAGGGACTCCATTCTCCCTCCCAAGCCCCGCAACTGCT	50460
Sbjct	50401	 TCCACAGTGGACCTTGGAACCTCAGGGACTCCATTCTCCCTCCCAAGCCCCGCAACTGCT	50460
Query	50461	GGCCCTCTCCTGGTGCTGTTACCCCTCAACTTCACCATCACCAACCTGAAGTATGAGGAG	50520
Sbjct	50461	 GGCCCTCTCCTGGTGCTGTTACCCCTCAACTTCACCATCACCAACCTGAAGTATGAGGAG	50520
Query	50521	GACATGCATCGCCCTGGCTCCAGGAAGTTCAACACCAGTGGAGGGTCTGCAGACTCTG	50580
Sbjct	50521	 GACATGCATCGCCCTGGCTCCAGGAAGTTCAACACCAGTGGAGGGTCTGCAGACTCTG	50580
Query	50581	CTTGGTCCTATGTTCAAGAACACCAGTGTTGGCCTTCTGTACTCTGGCTGCAGACTGACC	50640
Sbjct	50581	 CTTGGTCCTATGTTCAAGAACACCAGTGTTGGCCTTCTGTACTCTGGCTGCAGACTGACC	50640
Query	50641	TTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGT	50700
Sbjct	50641	 TTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGT	50700
Query	50701	CTTGACCCCCAAAAGCCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	50760
Sbjct	50701	 CTTGACCCCCAAAAGCCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	50760

Query	50761	ACCAANNNCATCNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAAT	50820
Sbjct	50761	ACCAANNNCATCNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAAT	50820
Query	50821	GGTTTCACCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNAC	50880
Sbjct	50821	GGTTTCACCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNAC	50880
Query	50881	NTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTG	50940
Sbjct	50881	NTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTG	50940
Query	50941	NTNCCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNC	51000
Sbjct	50941	NTNCCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNC	51000
Query	51001	CCNGGNTCCAGGAAGTTCAACACCACNGAGAGAGTCCCTTCAGGGTCTGCTCAGGCCTGTG	51060
Sbjct	51001	CCNGGNTCCAGGAAGTTCAACACCACNGAGAGAGTCCCTTCAGGGTCTGCTCAGGCCTGTG	51060
Query	51061	TTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCC	51120
Sbjct	51061	TTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCC	51120
Query	51121	AAGAAGGATGGGGCAGCCACCAAAGTGGATGCCATCTGCACCTACCGCCCTGATCCCCAA	51180
Sbjct	51121	AAGAAGGATGGGGCAGCCACCAAAGTGGATGCCATCTGCACCTACCGCCCTGATCCCCAA	51180
Query	51181	AGCCCTGGACTGGACAGAGAGCAGCTATACTGGGAGCTGAGCCAGCTAACCACAGCATC	51240
Sbjct	51181	AGCCCTGGACTGGACAGAGAGCAGCTATACTGGGAGCTGAGCCAGCTAACCACAGCATC	51240
Query	51241	ACTGAGCTGGGCCCCCTACACCCAGGACAGGGACAGTCTCTATGTCAATGGCTTCACCCAT	51300
Sbjct	51241	ACTGAGCTGGGCCCCCTACACCCAGGACAGGGACAGTCTCTATGTCAATGGCTTCACCCAT	51300
Query	51301	CGGAGCTCTGTGCCAACCACCAGTATTCTCTGGGACCTCTGCAGTGCACCTGGAAACCACT	51360
Sbjct	51301	CGGAGCTCTGTGCCAACCACCAGTATTCTCTGGGACCTCTGCAGTGCACCTGGAAACCACT	51360
Query	51361	GGGACTCCATCCTCCTTCCCCGGCCACACAGAGCCTGGCCCTCTCCTGATACCATTCACT	51420
Sbjct	51361	GGGACTCCATCCTCCTTCCCCGGCCACACAGAGCCTGGCCCTCTCCTGATACCATTCACT	51420
Query	51421	TTCAACTTTACCATCACCAACCTGCGTTATGAGGAAAACATGCAACACCCTGGTTCCAGG	51480
Sbjct	51421	TTCAACTTTACCATCACCAACCTGCGTTATGAGGAAAACATGCAACACCCTGGTTCCAGG	51480
Query	51481	AAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTGCTCACGCCCTTGTTCAAGAACACC	51540
Sbjct	51481	AAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTGCTCACGCCCTTGTTCAAGAACACC	51540
Query	51541	AGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAGCAGGAG	51600
Sbjct	51541	AGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAGCAGGAG	51600
Query	51601	GCAGCCACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATCGGACCTGGACTG	51660
Sbjct	51601	GCAGCCACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATCGGACCTGGACTG	51660
Query	51661	GACAGAGAGCGGCTATACTGGGAGCTGAGCCAGCTGACCAACAGCATCACAGAGCTGGGA	51720
Sbjct	51661	GACAGAGAGCGGCTATACTGGGAGCTGAGCCAGCTGACCAACAGCATCACAGAGCTGGGA	51720
Query	51721	CCCTACACCCTGGATAGGGACAGTCTCTATGTGATGGCTTCAACCCTTGGAGCTCTGTG	51780

Sbjct	51721	 CCCTACACCCTGGATAGGGACAGTCTCTATGTCGATGGCTTCAACCCCTGGAGCTCTGTG	51780
Query	51781	CCAACCACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCC	51840
Sbjct	51781	 CCAACCACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCC	51840
Query	51841	CCCCTGCCTGGCCACACAGCCCCTGTCCCTCTCTTGATACCATTACCCCTCAACTTTACC	51900
Sbjct	51841	 CCCCTGCCTGGCCACACAGCCCCTGTCCCTCTCTTGATACCATTACCCCTCAACTTTACC	51900
Query	51901	ATCACCGACCTGCATTATGAAGAAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACC	51960
Sbjct	51901	 ATCACCGACCTGCATTATGAAGAAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACC	51960
Query	51961	ACGGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGCGTTGGCCCT	52020
Sbjct	51961	 ACGGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGCGTTGGCCCT	52020
Query	52021	CTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGGGCAGCCACTGGA	52080
Sbjct	52021	 CTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGGGCAGCCACTGGA	52080
Query	52081	GTGGACGCCATCTGCACCCTCCGCCTTGATCCCCTGGTCCCTGGACTGGACAGAGAGCGG	52140
Sbjct	52081	 GTGGACGCCATCTGCACCCTCCGCCTTGATCCCCTGGTCCCTGGACTGGACAGAGAGCGG	52140
Query	52141	CTATACTGGGAGCTGAGCCAGCTGACCAACAGCATCACAGAGCTGGGACCCCTACACCCTG	52200
Sbjct	52141	 CTATACTGGGAGCTGAGCCAGCTGACCAACAGCATCACAGAGCTGGGACCCCTACACCCTG	52200
Query	52201	GATAGGGACAGTCTCTATGTCAATGGCTTCAACCCCTGGAGCTCTGTGCCAACCACCAGC	52260
Sbjct	52201	 GATAGGGACAGTCTCTATGTCAATGGCTTCAACCCCTGGAGCTCTGTGCCAACCACCAGC	52260
Query	52261	ACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCCTCCCTGCCTGGC	52320
Sbjct	52261	 ACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCCTCCCTGCCTGGC	52320
Query	52321	CACACAACCTGCTGGCCCTCTCCTGGTGCCGTTACCCCTCAACTTCACCATCACCAACCTG	52380
Sbjct	52321	 CACACAACCTGCTGGCCCTCTCCTGGTGCCGTTACCCCTCAACTTCACCATCACCAACCTG	52380
Query	52381	AAGTACGAGGAGGACATGCATTGCCCTGGCTCCAGGAAGTTCAACACCACAGAGAGAGTC	52440
Sbjct	52381	 AAGTACGAGGAGGACATGCATTGCCCTGGCTCCAGGAAGTTCAACACCACAGAGAGAGTC	52440
Query	52441	CTGCAGAGTCTGCATGGTCCCATGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGC	52500
Sbjct	52441	 CTGCAGAGTCTGCATGGTCCCATGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGC	52500
Query	52501	TGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATC	52560
Sbjct	52501	 TGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATC	52560
Query	52561	TGCACCCACCGTCTTGACCCCAAAGCCCTGGACTGNACAGNGAGCNGCTNTACTGGGAG	52620
Sbjct	52561	 TGCACCCACCGTCTTGACCCCAAAGCCCTGGACTGNACAGNGAGCNGCTNTACTGGGAG	52620
Query	52621	CTNAGCCANCTGACCAANNNCATCNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGT	52680
Sbjct	52621	 CTNAGCCANCTGACCAANNNCATCNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGT	52680
Query	52681	CTCTATGTCAATGGTTTTACCCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACC	52740
Sbjct	52681	 CTCTATGTCAATGGTTTTACCCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACC	52740

Query	52741	TCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCT	52800
Sbjct	52741	TCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCT	52800
Query	52801	GNCCCTCTCCTGNTNCCNTTCAACNTCAACTTNACCATCACCAACCTGCANTANGNGGAN	52860
Sbjct	52801	GNCCCTCTCCTGNTNCCNTTCAACNTCAACTTNACCATCACCAACCTGCANTANGNGGAN	52860
Query	52861	NACATGCNNCNCNCCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNTCTGCAGGGTCTG	52920
Sbjct	52861	NACATGCNNCNCNCCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNTCTGCAGGGTCTG	52920
Query	52921	CTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACC	52980
Sbjct	52921	CTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACC	52980
Query	52981	TNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACCNN	53040
Sbjct	52981	TNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACCNN	53040
Query	53041	CNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	53100
Sbjct	53041	CNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	53100
Query	53101	ACCAACAGCATCACAGAGCTGGGACCCTACACCCTGGATAGGGACAGTCTCTATGTCAAT	53160
Sbjct	53101	ACCAACAGCATCACAGAGCTGGGACCCTACACCCTGGATAGGGACAGTCTCTATGTCAAT	53160
Query	53161	GGTTTCACCCATCGAAGCTCTATGCCCACCACCAGTATTCTCTGGGACCTCTGCAGTGCAC	53220
Sbjct	53161	GGTTTCACCCATCGAAGCTCTATGCCCACCACCAGTATTCTCTGGGACCTCTGCAGTGCAC	53220
Query	53221	CTGGAAACCTCTGGGACTCCAGCCTCCCTCCCTGGCCACACAGCCCCTGGCCCTCTCCTG	53280
Sbjct	53221	CTGGAAACCTCTGGGACTCCAGCCTCCCTCCCTGGCCACACAGCCCCTGGCCCTCTCCTG	53280
Query	53281	GTGCCATTACCCCTCAACTTCACTATCACCAACCTGCAGTATGAGGAGGACATGCGTCAC	53340
Sbjct	53281	GTGCCATTACCCCTCAACTTCACTATCACCAACCTGCAGTATGAGGAGGACATGCGTCAC	53340
Query	53341	CCTGGTTCCAGGAAGTTCAACACCACGGAGAGAGTCTCTGCAGGGTCTGCTCAAGCCCTTG	53400
Sbjct	53341	CCTGGTTCCAGGAAGTTCAACACCACGGAGAGAGTCTCTGCAGGGTCTGCTCAAGCCCTTG	53400
Query	53401	TTCAAGAGCACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCT	53460
Sbjct	53401	TTCAAGAGCACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCT	53460
Query	53461	GAAAAACGTGGGGCAGCCACCGGCGTGGACACCATCTGCACTACCGCCTTGACCCTCTA	53520
Sbjct	53461	GAAAAACGTGGGGCAGCCACCGGCGTGGACACCATCTGCACTACCGCCTTGACCCTCTA	53520
Query	53521	AACCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	53580
Sbjct	53521	AACCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	53580
Query	53581	NNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	53640
Sbjct	53581	NNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	53640
Query	53641	CNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	53700
Sbjct	53641	CNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	53700
Query	53701	GGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTACC	53760

Sbjct	53701	 GGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACC	53760
Query	53761	NTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCNGGNTCCAGG	53820
Sbjct	53761	 NTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCNGGNTCCAGG	53820
Query	53821	AAGTTCAACACCACNGAGNGNGTNTCTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCC	53880
Sbjct	53821	 AAGTTCAACACCACNGAGNGNGTNTCTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCC	53880
Query	53881	AGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGN	53940
Sbjct	53881	 AGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGN	53940
Query	53941	GCAGCCACTGGANTGGATGCCATCTGCANCCACCNNTNANCCCCAAAAGNCCTGGACTG	54000
Sbjct	53941	 GCAGCCACTGGANTGGATGCCATCTGCANCCACCNNTNANCCCCAAAAGNCCTGGACTG	54000
Query	54001	NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNGAGCTGGGN	54060
Sbjct	54001	 NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNGAGCTGGGN	54060
Query	54061	CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTTACCCCTCGGAGCTCTGTG	54120
Sbjct	54061	 CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTTACCCCTCGGAGCTCTGTG	54120
Query	54121	CCAACCACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCC	54180
Sbjct	54121	 CCAACCACCAGCACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCC	54180
Query	54181	TCCCTGCCTGGCCACACAGCCCCGTCCCTCTCTTGATACCATTACCCCTCAACTTTACC	54240
Sbjct	54181	 TCCCTGCCTGGCCACACAGCCCCGTCCCTCTCTTGATACCATTACCCCTCAACTTTACC	54240
Query	54241	ATCACCAACCTGCATTATGAAGAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACC	54300
Sbjct	54241	 ATCACCAACCTGCATTATGAAGAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACC	54300
Query	54301	ACGGAGCGGGTCTCTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACAAGTGTCGGCCTT	54360
Sbjct	54301	 ACGGAGCGGGTCTCTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACAAGTGTCGGCCTT	54360
Query	54361	CTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGGGCAGCCACTGGA	54420
Sbjct	54361	 CTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGGGCAGCCACTGGA	54420
Query	54421	ATGGATGCCATCTGCAGCCACCGTCTTGACCCCCAAAAGCCCTGGACTGNACAGNGAGCNG	54480
Sbjct	54421	 ATGGATGCCATCTGCAGCCACCGTCTTGACCCCCAAAAGCCCTGGACTGNACAGNGAGCNG	54480
Query	54481	CTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNGAGCTGGGNCCCTACACCCTG	54540
Sbjct	54481	 CTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNGAGCTGGGNCCCTACACCCTG	54540
Query	54541	GACAGGNACAGTCTCTATGTCAATGGTTTTACCCATCNGANCTCTGNGCCCACCACCAGC	54600
Sbjct	54541	 GACAGGNACAGTCTCTATGTCAATGGTTTTACCCATCNGANCTCTGNGCCCACCACCAGC	54600
Query	54601	ACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGC	54660
Sbjct	54601	 ACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGC	54660
Query	54661	CNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACCATCACCAACCTG	54720
Sbjct	54661	 CNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACCATCACCAACCTG	54720

Query	54721	CANTANGNGGANNACATGCNNCNCNCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTN	54780
Sbjct	54721	CANTANGNGGANNACATGCNNCNCNCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTN	54780
Query	54781	CTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGC	54840
Sbjct	54781	CTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGC	54840
Query	54841	TGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATC	54900
Sbjct	54841	TGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATC	54900
Query	54901	TGCANCCACCNCTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAG	54960
Sbjct	54901	TGCANCCACCNCTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAG	54960
Query	54961	CTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCTACACCCTGGACAGGNACAGT	55020
Sbjct	54961	CTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCTACACCCTGGACAGGNACAGT	55020
Query	55021	CTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGTACTCCTGGGACC	55080
Sbjct	55021	CTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGTACTCCTGGGACC	55080
Query	55081	TCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGCCACACAGAGCCT	55140
Sbjct	55081	TCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGCCACACAGAGCCT	55140
Query	55141	GGCCCTCTCCTGATACCATTCACTTTCAACTTTACCATCACCAACCTGCATTATGAGGAA	55200
Sbjct	55141	GGCCCTCTCCTGATACCATTCACTTTCAACTTTACCATCACCAACCTGCATTATGAGGAA	55200
Query	55201	AACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTG	55260
Sbjct	55201	AACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTG	55260
Query	55261	CTCACGCCCTTGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACC	55320
Sbjct	55261	CTCACGCCCTTGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACC	55320
Query	55321	TTGCTCAGACCTGAGAAGCAGGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGC	55380
Sbjct	55321	TTGCTCAGACCTGAGAAGCAGGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGC	55380
Query	55381	GTTGATCCCATCGGACCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	55440
Sbjct	55381	GTTGATCCCATCGGACCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	55440
Query	55441	ACCAANNNCATCNNNGAGCTGGGNCCTACACCCTGGACAGGNACAGTCTCTATGTCAAT	55500
Sbjct	55441	ACCAANNNCATCNNNGAGCTGGGNCCTACACCCTGGACAGGNACAGTCTCTATGTCAAT	55500
Query	55501	GGTTTCACCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNAC	55560
Sbjct	55501	GGTTTCACCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNAC	55560
Query	55561	NTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTG	55620
Sbjct	55561	NTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTG	55620
Query	55621	NTNCCNTTCACCNCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNC	55680
Sbjct	55621	NTNCCNTTCACCNCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNC	55680
Query	55681	CCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNCTGCAGGGTCTGCTNNNNCCCNTN	55740

Sbjct	55681	 CCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNTCTGCAGGGTCTGCTNNNNCCCNTN	55740
Query	55741	TTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCN	55800
Sbjct	55741	 TTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCN	55800
Query	55801	GAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACCNNCNTNANCCCCAAA	55860
Sbjct	55801	 GAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACCNNCNTNANCCCCAAA	55860
Query	55861	AGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	55920
Sbjct	55861	 AGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	55920
Query	55921	NNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	55980
Sbjct	55921	 NNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	55980
Query	55981	CGGAGCTCTGTGCCAACCACCAGCAGTCCTGGGACCTCCACAGTGCACCTGGCAACCTCT	56040
Sbjct	55981	 CGGAGCTCTGTGCCAACCACCAGCAGTCCTGGGACCTCCACAGTGCACCTGGCAACCTCT	56040
Query	56041	GGGACTCCATCCTCCCTGCCTGGCCACACAGCCCCTGTCCCTCTCTTGATAACCATTCACC	56100
Sbjct	56041	 GGGACTCCATCCTCCCTGCCTGGCCACACAGCCCCTGTCCCTCTCTTGATAACCATTCACC	56100
Query	56101	CTCAACTTTACCATCACCAACCTGCATTATGAAGAAAACATGCAACACCCTGGTTCCAGG	56160
Sbjct	56101	 CTCAACTTTACCATCACCAACCTGCATTATGAAGAAAACATGCAACACCCTGGTTCCAGG	56160
Query	56161	AAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACC	56220
Sbjct	56161	 AAGTTCAACACCACGGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACC	56220
Query	56221	AGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGG	56280
Sbjct	56221	 AGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGG	56280
Query	56281	GCAGCCACTGGAGTGGACGCCATCTGCACCCTCCGCCTTGATCCCCTGGTCCCTGGACTG	56340
Sbjct	56281	 GCAGCCACTGGAGTGGACGCCATCTGCACCCTCCGCCTTGATCCCCTGGTCCCTGGACTG	56340
Query	56341	NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGN	56400
Sbjct	56341	 NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGN	56400
Query	56401	CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNG	56460
Sbjct	56401	 CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNG	56460
Query	56461	CCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCC	56520
Sbjct	56461	 CCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCC	56520
Query	56521	TCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACC	56580
Sbjct	56521	 TCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNTCAACTTNACC	56580
Query	56581	ATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCNGGNTCCAGGAAGTTCAACACC	56640
Sbjct	56581	 ATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCNGGNTCCAGGAAGTTCAACACC	56640
Query	56641	ACNGAGNGNGTNTCTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNT	56700
Sbjct	56641	 ACNGAGNGNGTNTCTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNT	56700



Query	56701	CTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGA	56760
Sbjct	56701	CTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGA	56760
Query	56761	NTGGATGCCATCTGCANCCACCNNCNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNG	56820
Sbjct	56761	NTGGATGCCATCTGCANCCACCNNCNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNG	56820
Query	56821	CTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCCTACACCCTG	56880
Sbjct	56821	CTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCCTACACCCTG	56880
Query	56881	GACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCGGACCTCTGTGCCCACCACCAGC	56940
Sbjct	56881	GACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCGGACCTCTGTGCCCACCACCAGC	56940
Query	56941	ACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCCTCCCTGCCTGGC	57000
Sbjct	56941	ACTCCTGGGACCTCCACAGTGCACCTGGCAACCTCTGGGACTCCATCCTCCCTGCCTGGC	57000
Query	57001	CACACAGCCCCTGTCCCTCTCTTGATACCATTACCCCTCAACTTTACCATCACCAACCTG	57060
Sbjct	57001	CACACAGCCCCTGTCCCTCTCTTGATACCATTACCCCTCAACTTTACCATCACCAACCTG	57060
Query	57061	CAGTATGAGGAGGACATGCATCGCCCTGGATCTAGGAAGTTCAACACCACAGAGAGGGTC	57120
Sbjct	57061	CAGTATGAGGAGGACATGCATCGCCCTGGATCTAGGAAGTTCAACACCACAGAGAGGGTC	57120
Query	57121	CTGCAGGGTCTGCTTAGTCCCATTTTCAAGAACTCCAGTGTTGGCCCTCTGTACTCTGGC	57180
Sbjct	57121	CTGCAGGGTCTGCTTAGTCCCATTTTCAAGAACTCCAGTGTTGGCCCTCTGTACTCTGGC	57180
Query	57181	TGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGAATGGATGCTGTC	57240
Sbjct	57181	TGCAGACTGACCTCTCTCAGGCCCGAGAAGGATGGGGCAGCAACTGGAATGGATGCTGTC	57240
Query	57241	TGCCTCTACCACCCTAATCCCCAAAAGACCTGGGCTGGACAGAGAGCAGCTGTACTGCGAG	57300
Sbjct	57241	TGCCTCTACCACCCTAATCCCCAAAAGACCTGGGCTGGACAGAGAGCAGCTGTACTGCGAG	57300
Query	57301	CTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCCTACAGCCTGGACAGGGACAGT	57360
Sbjct	57301	CTAAGCCAGCTGACCCACAACATCACTGAGCTGGGCCCCTACAGCCTGGACAGGGACAGT	57360
Query	57361	CTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGTACTCCTGGGACC	57420
Sbjct	57361	CTCTATGTCAATGGTTTCACCCATCAGAACTCTGTGCCCACCACCAGTACTCCTGGGACC	57420
Query	57421	TCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGCCACACANCNNCT	57480
Sbjct	57421	TCCACAGTGTACTGGGCAACCACTGGGACTCCATCCTCCTTCCCCGGCCACACANCNNCT	57480
Query	57481	GNCCCTCTCCTGNTNCCNTTACCNTCAACTTNACCATCACCAACCTGCANTANGNGGAN	57540
Sbjct	57481	GNCCCTCTCCTGNTNCCNTTACCNTCAACTTNACCATCACCAACCTGCANTANGNGGAN	57540
Query	57541	NACATGCNNCNCNCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNCTGCAGGGTCTG	57600
Sbjct	57541	NACATGCNNCNCNCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTNCTGCAGGGTCTG	57600
Query	57601	CTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACC	57660
Sbjct	57601	CTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACC	57660
Query	57661	TNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACCNN	57720

Sbjct	57661	 TNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACNN	57720
Query	57721	CNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	57780
Sbjct	57721	 CNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTG	57780
Query	57781	ACCAANNNCATCNNGAGCTGGGNCCTACACCCTGGACAGGNACAGTCTCTATGTCAAT	57840
Sbjct	57781	 ACCAANNNCATCNNGAGCTGGGNCCTACACCCTGGACAGGNACAGTCTCTATGTCAAT	57840
Query	57841	GGTTTCACCCATTGGAGCTCTGGGCTCACCACCAGCACTCCTTGGACTTCCACAGTTGAC	57900
Sbjct	57841	 GGTTTCACCCATTGGAGCTCTGGGCTCACCACCAGCACTCCTTGGACTTCCACAGTTGAC	57900
Query	57901	CTTGGAACCTCAGGGACTCCATCCCCGTCGCCAGCCCCACAACCTGCTGGCCCTCTCCTG	57960
Sbjct	57901	 CTTGGAACCTCAGGGACTCCATCCCCGTCGCCAGCCCCACAACCTGCTGGCCCTCTCCTG	57960
Query	57961	GTGCCATTACCCCTAAACTTCACCATCACCAACCTGCAGTATGAGGAGGACATGCATCGC	58020
Sbjct	57961	 GTGCCATTACCCCTAAACTTCACCATCACCAACCTGCAGTATGAGGAGGACATGCATCGC	58020
Query	58021	CCTGGATCTAGGAAGTTCAACGCCACAGAGAGGGTCTGCAGGGTCTGCTTAGTCCCATA	58080
Sbjct	58021	 CCTGGATCTAGGAAGTTCAACGCCACAGAGAGGGTCTGCAGGGTCTGCTTAGTCCCATA	58080
Query	58081	TTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCT	58140
Sbjct	58081	 TTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGACCT	58140
Query	58141	GAGAAGCAGGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATC	58200
Sbjct	58141	 GAGAAGCAGGAGGCAGCCACTGGAGTGGACACCATCTGTACCCACCGCGTTGATCCCATC	58200
Query	58201	GGACCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	58260
Sbjct	58201	 GGACCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATC	58260
Query	58261	NNNGAGCTGGGNCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	58320
Sbjct	58261	 NNNGAGCTGGGNCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCAT	58320
Query	58321	CNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	58380
Sbjct	58321	 CNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCN	58380
Query	58381	GGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACC	58440
Sbjct	58381	 GGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACC	58440
Query	58441	NTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCCNGGNTCCAGG	58500
Sbjct	58441	 NTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCNCCNGGNTCCAGG	58500
Query	58501	AAGTTCAACACCACNGAGNGNGTNTCTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCC	58560
Sbjct	58501	 AAGTTCAACACCACNGAGNGNGTNTCTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCC	58560
Query	58561	AGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGN	58620
Sbjct	58561	 AGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGN	58620
Query	58621	GCAGCCACTGGANTGGATGCCATCTGCANCCACCNNCNTNANCCCCAAAAGNCCTGGACTG	58680
Sbjct	58621	 GCAGCCACTGGANTGGATGCCATCTGCANCCACCNNCNTNANCCCCAAAAGNCCTGGACTG	58680

Query	58681	NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGN	58740
Sbjct	58681	NACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGN	58740
Query	58741	CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCGGAGCTTTGGG	58800
Sbjct	58741	CCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCGGAGCTTTGGG	58800
Query	58801	CTCACCACCAGCACTCCTTGGAAGTTCCACAGTTGACCTTGGAACCTCAGGGACTCCATCC	58860
Sbjct	58801	CTCACCACCAGCACTCCTTGGAAGTTCCACAGTTGACCTTGGAACCTCAGGGACTCCATCC	58860
Query	58861	CCCGTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCATTACCCCTAAACTTCACC	58920
Sbjct	58861	CCCGTCCCCAGCCCCACAACCTGCTGGCCCTCTCCTGGTGCCATTACCCCTAAACTTCACC	58920
Query	58921	ATCACCAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGCTCCAGGAAGTTCAACACC	58980
Sbjct	58921	ATCACCAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGCTCCAGGAAGTTCAACACC	58980
Query	58981	ACGGAGAGGGTCCTTCAGGGTCTGCTTACGCCCTTGTTTCAGGAACACCAGTGTGAGCTCT	59040
Sbjct	58981	ACGGAGAGGGTCCTTCAGGGTCTGCTTACGCCCTTGTTTCAGGAACACCAGTGTGAGCTCT	59040
Query	59041	CTGTACTCTGGTTGCAGACTGACCTTGCTCAGGCCTGAGAAGGATGGGGCAGCCACCAGA	59100
Sbjct	59041	CTGTACTCTGGTTGCAGACTGACCTTGCTCAGGCCTGAGAAGGATGGGGCAGCCACCAGA	59100
Query	59101	GTGGATGCTGTCTGCACCCATCGTCCTGACCCCCAAAAGCCCTGGACTGNACAGNGAGCNG	59160
Sbjct	59101	GTGGATGCTGTCTGCACCCATCGTCCTGACCCCCAAAAGCCCTGGACTGNACAGNGAGCNG	59160
Query	59161	CTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCCTACACCCTG	59220
Sbjct	59161	CTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCCTACACCCTG	59220
Query	59221	GACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNGCCCACCACCAGC	59280
Sbjct	59221	GACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNGCCCACCACCAGC	59280
Query	59281	ACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGC	59340
Sbjct	59281	ACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCCNTCCCCNGC	59340
Query	59341	CNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNCAACTTNACCATCACCAACCTG	59400
Sbjct	59341	CNCACANCNNCTGNCCCTCTCCTGNTNCCNTTCACCNCAACTTNACCATCACCAACCTG	59400
Query	59401	CANTANGNGGANNACATGCNNCNCCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTN	59460
Sbjct	59401	CANTANGNGGANNACATGCNNCNCCNGGNTCCAGGAAGTTCAACACCACNGAGNGNGTN	59460
Query	59461	CTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGC	59520
Sbjct	59461	CTGCAGGGTCTGCTNNNNCCCNTNTTCAAGAACNCCAGTGTNGGCCNTCTGTACTCTGGC	59520
Query	59521	TGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATC	59580
Sbjct	59521	TGCAGACTGACCTNNCTCAGGNCNGAGAAGNATGGNGCAGCCACTGGANTGGATGCCATC	59580
Query	59581	TGCANCCACCNNCNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAG	59640
Sbjct	59581	TGCANCCACCNNCNTNANCCCCAAAAGNCCTGGACTGNACAGNGAGCNGCTNTACTGGGAG	59640
Query	59641	CTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGT	59700

Sbjct	59641	 CTNAGCCANCTGACCAANNNCATCNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGT	59700
Query	59701	CTCTATGTCAATGGTTTCACCCATTGGATCCCTGTGCCACCAGCAGCACTCCTGGGACC	59760
Sbjct	59701	 CTCTATGTCAATGGTTTCACCCATTGGATCCCTGTGCCACCAGCAGCACTCCTGGGACC	59760
Query	59761	TCCACAGTGGACCTTGGGTCAGGGACTCCATCCTCCCTCCCCAGCCCCACAACCTGCTGGC	59820
Sbjct	59761	 TCCACAGTGGACCTTGGGTCAGGGACTCCATCCTCCCTCCCCAGCCCCACAACCTGCTGGC	59820
Query	59821	CCTCTCCTGGTACCATTCAACCCTCAACTTCACCATCACCAACCTGCAGTATGGGGAGGAC	59880
Sbjct	59821	 CCTCTCCTGGTACCATTCAACCCTCAACTTCACCATCACCAACCTGCAGTATGGGGAGGAC	59880
Query	59881	ATGGGTCACCCCTGGCTCCAGGAAGTTCAACACCACAGAGAGGGTCCTGCAGGGTCTGCTT	59940
Sbjct	59881	 ATGGGTCACCCCTGGCTCCAGGAAGTTCAACACCACAGAGAGGGTCCTGCAGGGTCTGCTT	59940
Query	59941	GGTCCCATATTCAAGAACACCACTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTCT	60000
Sbjct	59941	 GGTCCCATATTCAAGAACACCACTGTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTCT	60000
Query	60001	CTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCATCCATCATCTT	60060
Sbjct	60001	 CTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCATCCATCATCTT	60060
Query	60061	GACCCCAAAAGCCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACC	60120
Sbjct	60061	 GACCCCAAAAGCCCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACC	60120
Query	60121	AANNNCATCNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGT	60180
Sbjct	60121	 AANNNCATCNNGAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGT	60180
Query	60181	TTCACCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTN	60240
Sbjct	60181	 TTCACCCATCNGANCTCTGNGCCCACCACCAGCACTCCTGGGACCTCCACAGTGNACNTN	60240
Query	60241	GGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTN	60300
Sbjct	60241	 GGNACCTCNGGGACTCCATCCTCCNTCCCCNGCCNCACANCNNCTGNCCCTCTCCTGNTN	60300
Query	60301	CCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCN	60360
Sbjct	60301	 CCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANNACATGCNNCNCN	60360
Query	60361	GGNTCCAGGAAGTTCAACACCACNGAGNGGTNCTGCAGGGTCTGCTNNNNCCNTNTTC	60420
Sbjct	60361	 GGNTCCAGGAAGTTCAACACCACNGAGNGGTNCTGCAGGGTCTGCTNNNNCCNTNTTC	60420
Query	60421	AAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAG	60480
Sbjct	60421	 AAGAACNCCAGTGTNGGCCNTCTGTACTCTGGCTGCAGACTGACCTNNCTCAGGNCNGAG	60480
Query	60481	AAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACCNNCNTNANCCCAAAAGN	60540
Sbjct	60481	 AAGNATGGNGCAGCCACTGGANTGGATGCCATCTGCANCCACCNNCNTNANCCCAAAAGN	60540
Query	60541	CCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNN	60600
Sbjct	60541	 CCTGGACTGNACAGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNN	60600
Query	60601	GAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCAG	60660
Sbjct	60601	 GAGCTGGGNCCCTACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCAG	60660

Query	60661	ACCTTTGCGCCCAACACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGACCTCAGGG	60720
Sbjct	60661	ACCTTTGCGCCCAACACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGGACCTCAGGG	60720
Query	60721	ACTCCATCCTCCCTCCCCAGCCCTACATCTGCTGGCCCTCTCCTGGTGCCATTACCCCTC	60780
Sbjct	60721	ACTCCATCCTCCCTCCCCAGCCCTACATCTGCTGGCCCTCTCCTGGTGCCATTACCCCTC	60780
Query	60781	AACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCACCCAGGCTCCAGGAAG	60840
Sbjct	60781	AACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCATCACCCAGGCTCCAGGAAG	60840
Query	60841	TTCAACACCACGGAGCGGGTCTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACCAGT	60900
Sbjct	60841	TTCAACACCACGGAGCGGGTCTGCAGGGTCTGCTTGGTCCCATGTTCAAGAACACCAGT	60900
Query	60901	GTCGGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGGGCA	60960
Sbjct	60901	GTCGGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGAATGGGGCA	60960
Query	60961	GCCACCAGAGTGGATGCTGTCTGCACCCATCGTCCTGACCCCAAAAGCCCTGGACTGNAC	61020
Sbjct	60961	GCCACCAGAGTGGATGCTGTCTGCACCCATCGTCCTGACCCCAAAAGCCCTGGACTGNAC	61020
Query	61021	AGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCC	61080
Sbjct	61021	AGNGAGCNGCTNTACTGGGAGCTNAGCCANCTGACCAANNNCATCNNNGAGCTGGGNCCC	61080
Query	61081	TACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNGCCC	61140
Sbjct	61081	TACACCCTGGACAGGNACAGTCTCTATGTCAATGGTTTCACCCATCNGANCTCTGNGCCC	61140
Query	61141	ACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCC	61200
Sbjct	61141	ACCACCAGCACTCCTGGGACCTCCACAGTGNACNTNGGNACCTCNGGGACTCCATCCTCC	61200
Query	61201	NTCCCCNGCCNCACAGCCCCCTGTCCCTCTCTTGATAACCATTACCCCTCAACTTTACCATC	61260
Sbjct	61201	NTCCCCNGCCNCACAGCCCCCTGTCCCTCTCTTGATAACCATTACCCCTCAACTTTACCATC	61260
Query	61261	ACCAACCTGCATTATGAAGAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACG	61320
Sbjct	61261	ACCAACCTGCATTATGAAGAAAACATGCAACACCCTGGTTCCAGGAAGTTCAACACCACG	61320
Query	61321	GAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGCGTTGGCCCTCTG	61380
Sbjct	61321	GAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGCGTTGGCCCTCTG	61380
Query	61381	TACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGGGCAGCCACTGGAGTG	61440
Sbjct	61381	TACTCTGGCTGCAGACTGACCTTGCTCAGACCTGAGAAACATGGGGCAGCCACTGGAGTG	61440
Query	61441	GACGCCATCTGCACCCCTCCGCCTTGATCCCACTGGTCCTGGACTGGACAGAGAGCGGCTA	61500
Sbjct	61441	GACGCCATCTGCACCCCTCCGCCTTGATCCCACTGGTCCTGGACTGGACAGAGAGCGGCTA	61500
Query	61501	TACTGGGAGCTGAGCCAGCTGACCAACAGCGTTACAGAGCTGGGCCCCTACACCCTGGAC	61560
Sbjct	61501	TACTGGGAGCTGAGCCAGCTGACCAACAGCGTTACAGAGCTGGGCCCCTACACCCTGGAC	61560
Query	61561	AGGGACAGTCTCTATGTCAATGGCTTCACCCAGCGGAGCTCTGTGCCAACCACCAGTATT	61620
Sbjct	61561	AGGGACAGTCTCTATGTCAATGGCTTCACCCAGCGGAGCTCTGTGCCAACCACCAGTATT	61620
Query	61621	CCTGGGACCTCTGCAGTGCACCTGGAAACCTCTGGGACTCCAGCCTCCCTCCCTGGCCAC	61680

Sbjct	61621	 CCTGGGACCTCTGCAGTGCACCTGGAAACCTCTGGGACTCCAGCCTCCCTCCCTGGCCAC	61680
Query	61681	ACAGCCCCTGGCCCTCTCCTGGTGCCATTCAACCTCAACTTCACTATCACCAACCTGCAG 	61740
Sbjct	61681	ACAGCCCCTGGCCCTCTCCTGGTGCCATTCAACCTCAACTTCACTATCACCAACCTGCAG	61740
Query	61741	TATGAGGTGGACATGCGTCACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGAGTCCTG 	61800
Sbjct	61741	TATGAGGTGGACATGCGTCACCCTGGTTCCAGGAAGTTCAACACCACGGAGAGAGTCCTG	61800
Query	61801	CAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGTGTGGCCCTCTGTACTCTGGCTGC 	61860
Sbjct	61801	CAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGTGTGGCCCTCTGTACTCTGGCTGC	61860
Query	61861	AGACTGACCTTGCTCAGGCCTGAAAAACGTGGGGCAGCCACCGGCGTGGACACCATCTGC 	61920
Sbjct	61861	AGACTGACCTTGCTCAGGCCTGAAAAACGTGGGGCAGCCACCGGCGTGGACACCATCTGC	61920
Query	61921	ACTCACCGCCTTGACCCCTCTAAACCTGGACTGGACAGAGAGCAGCTATACTGGGAGCTG 	61980
Sbjct	61921	ACTCACCGCCTTGACCCCTCTAAACCTGGACTGGACAGAGAGCAGCTATACTGGGAGCTG	61980
Query	61981	AGCAAACCTGACCCGTGGCATCATCGAGCTGGGCCCCCTACCTCCTGGACAGAGGCAGTCTC 	62040
Sbjct	61981	AGCAAACCTGACCCGTGGCATCATCGAGCTGGGCCCCCTACCTCCTGGACAGAGGCAGTCTC	62040
Query	62041	TATGTCAATGGTTTCACCCATCGGAACTTTGTGCCCATCACCAGCACTCCTGGGACCTCC 	62100
Sbjct	62041	TATGTCAATGGTTTCACCCATCGGAACTTTGTGCCCATCACCAGCACTCCTGGGACCTCC	62100
Query	62101	ACAGTACACCTAGGAACCTCTGAAACTCCATCCTCCCTACCTAGACCCATAGTGCCTGGC 	62160
Sbjct	62101	ACAGTACACCTAGGAACCTCTGAAACTCCATCCTCCCTACCTAGACCCATAGTGCCTGGC	62160
Query	62161	CCTCTCCTGGTGCCATTCAACCTCAACTTCACCATCACCAACTTGAGTATGAGGAGGCC 	62220
Sbjct	62161	CCTCTCCTGGTGCCATTCAACCTCAACTTCACCATCACCAACTTGAGTATGAGGAGGCC	62220
Query	62221	ATGCGACACCCTGGCTCCAGGAAGTTCAATACCACGGAGAGGGTCCTACAGGGTCTGCTC 	62280
Sbjct	62221	ATGCGACACCCTGGCTCCAGGAAGTTCAATACCACGGAGAGGGTCCTACAGGGTCTGCTC	62280
Query	62281	AGGCCCTTGTTCAAGAATACCAGTATCGGCCCTCTGTACTCCAGCTGCAGACTGACCTTG 	62340
Sbjct	62281	AGGCCCTTGTTCAAGAATACCAGTATCGGCCCTCTGTACTCCAGCTGCAGACTGACCTTG	62340
Query	62341	CTCAGGCCAGAGAAGGACAAGGCAGCCACCAGAGTGGATGCCATCTGTACCCACCACCT 	62400
Sbjct	62341	CTCAGGCCAGAGAAGGACAAGGCAGCCACCAGAGTGGATGCCATCTGTACCCACCACCT	62400
Query	62401	GACCCCTCAAAGCCCTGGACTGAACAGAGAGCAGCTGTACTGGGAGCTGAGCCAGCTGACC 	62460
Sbjct	62401	GACCCCTCAAAGCCCTGGACTGAACAGAGAGCAGCTGTACTGGGAGCTGAGCCAGCTGACC	62460
Query	62461	CACGGCATCACTGAGCTGGGCCCCCTACACCCTGGACAGGGACAGTCTCTATGTCGATGGT 	62520
Sbjct	62461	CACGGCATCACTGAGCTGGGCCCCCTACACCCTGGACAGGGACAGTCTCTATGTCGATGGT	62520
Query	62521	TTCACTCATTGGAGCCCCATACCGACCACCAGCACTCCTGGGACCTCCATAGTGAACCTG 	62580
Sbjct	62521	TTCACTCATTGGAGCCCCATACCGACCACCAGCACTCCTGGGACCTCCATAGTGAACCTG	62580
Query	62581	GGAACCTCTGGGATCCCACCTTCCCTCCCTGAAACTACANCNNCTGNCCCTCTCCTGNTN 	62640
Sbjct	62581	GGAACCTCTGGGATCCCACCTTCCCTCCCTGAAACTACANCNNCTGNCCCTCTCCTGNTN	62640

Query	62641	CCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANACATGCNNCNCNCCN	62700
Sbjct	62641	CCNTTCACCNTCAACTTNACCATCACCAACCTGCANTANGNGGANACATGCNNCNCNCCN	62700
Query	62701	GGNTCCAGGAAGTTCAACACCACNGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTT	62760
Sbjct	62701	GGNTCCAGGAAGTTCAACACCACNGAGAGGGTTCTGCAGGGTCTGCTCAAGCCCTTGTTT	62760
Query	62761	AAGAGCACCAGTGTGGCCCTCTGTATTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAG	62820
Sbjct	62761	AAGAGCACCAGTGTGGCCCTCTGTATTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAG	62820
Query	62821	AAGGACGGAGTAGCCACCAGAGTGGACGCCATCTGCACCCACCGCCCTGACCCCAAATC	62880
Sbjct	62821	AAGGACGGAGTAGCCACCAGAGTGGACGCCATCTGCACCCACCGCCCTGACCCCAAATC	62880
Query	62881	CCTGGGCTAGACAGACAGCAGCTATACTGGGAGCTGAGCCAGCTGACCCACAGCATCACT	62940
Sbjct	62881	CCTGGGCTAGACAGACAGCAGCTATACTGGGAGCTGAGCCAGCTGACCCACAGCATCACT	62940
Query	62941	GAGCTGGGACCCTACACCCTGGATAGGGACAGTCTCTATGTCAATGGTTTCACCCAGCGG	63000
Sbjct	62941	GAGCTGGGACCCTACACCCTGGATAGGGACAGTCTCTATGTCAATGGTTTCACCCAGCGG	63000
Query	63001	AGCTCTGTGCCCACCACCAGCACTCCTGGGACTTTCACAGTACAGCCGAAACCTCTGAG	63060
Sbjct	63001	AGCTCTGTGCCCACCACCAGCACTCCTGGGACTTTCACAGTACAGCCGAAACCTCTGAG	63060
Query	63061	ACTCCATCATCCCTCCCTGGCCCCACAGCCACTGGCCCTGTCTGCTGCCATTACCCCTC	63120
Sbjct	63061	ACTCCATCATCCCTCCCTGGCCCCACAGCCACTGGCCCTGTCTGCTGCCATTACCCCTC	63120
Query	63121	AATTTTACCATCACTAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGCTCCAGGAAG	63180
Sbjct	63121	AATTTTACCATCACTAACCTGCAGTATGAGGAGGACATGCATCGCCCTGGCTCCAGGAAG	63180
Query	63181	TTCAACACCACGGAGAGGGTCTTTCAGGGTCTGCTTATGCCCTTGTTCAAGAACACCACT	63240
Sbjct	63181	TTCAACACCACGGAGAGGGTCTTTCAGGGTCTGCTTATGCCCTTGTTCAAGAACACCACT	63240
Query	63241	GTCAGCTCTCTGTACTCTGGTTGCAGACTGACCTTGCTCAGGCCTGAGAAGGATGGGGCA	63300
Sbjct	63241	GTCAGCTCTCTGTACTCTGGTTGCAGACTGACCTTGCTCAGGCCTGAGAAGGATGGGGCA	63300
Query	63301	GCCACCAGAGTGGATGCTGTCTGCACCCATCGTCTGACCCCAAAGCCCTGGACTGGAC	63360
Sbjct	63301	GCCACCAGAGTGGATGCTGTCTGCACCCATCGTCTGACCCCAAAGCCCTGGACTGGAC	63360
Query	63361	AGAGAGCGGCTGTACTGGAAGCTGAGCCAGCTGACCCACGGCATCACTGAGCTGGGCCCC	63420
Sbjct	63361	AGAGAGCGGCTGTACTGGAAGCTGAGCCAGCTGACCCACGGCATCACTGAGCTGGGCCCC	63420
Query	63421	TACACCCTGGACAGGCACAGTCTCTATGTCAATGGTTTCACCCATCAGAGCTCTATGACG	63480
Sbjct	63421	TACACCCTGGACAGGCACAGTCTCTATGTCAATGGTTTCACCCATCAGAGCTCTATGACG	63480
Query	63481	ACCACCAGAACTCCTGATACCTCCACAATGCACCTGGCAACCTCGAGAACTCCAGCCTCC	63540
Sbjct	63481	ACCACCAGAACTCCTGATACCTCCACAATGCACCTGGCAACCTCGAGAACTCCAGCCTCC	63540
Query	63541	CTGTCTGGACCTACGACCGCCAGCCCTCTCCTGGTGCTATTACAAATTAACCTTACCATC	63600
Sbjct	63541	CTGTCTGGACCTACGACCGCCAGCCCTCTCCTGGTGCTATTACAAATTAACCTTACCATC	63600
Query	63601	ACTAACCTGCGGTATGAGGAGAACATGCATCACCTGGCTCTAGAAAGTTTAACACCACG	63660

Sbjct	63601	 ACTAACCTGCGGTATGAGGAGAACATGCATCACCCCTGGCTCTAGAAAAGTTTAAACACCACG	63660
Query	63661	GAGAGAGTCCTTCAGGGTCTGCTCAGGCCTGTGTTCAAGAACACCAGTGTGGCCCTCTG	63720
Sbjct	63661	 GAGAGAGTCCTTCAGGGTCTGCTCAGGCCTGTGTTCAAGAACACCAGTGTGGCCCTCTG	63720
Query	63721	TACTCTGGCTGCAGACTGACCTTGCTCAGGCCCAAGAAGGATGGGGCAGCCACCAAAGTG	63780
Sbjct	63721	 TACTCTGGCTGCAGACTGACCTTGCTCAGGCCCAAGAAGGATGGGGCAGCCACCAAAGTG	63780
Query	63781	GATGCCATCTGCACCTACCGCCCTGATCCCAAAAGCCCTGGACTGGACAGAGAGCAGCTA	63840
Sbjct	63781	 GATGCCATCTGCACCTACCGCCCTGATCCCAAAAGCCCTGGACTGGACAGAGAGCAGCTA	63840
Query	63841	TACTGGGAGCTGAGCCAGCTAACCACAGCATCACTGAGCTGGGCCCCCTACACCCTGGAC	63900
Sbjct	63841	 TACTGGGAGCTGAGCCAGCTAACCACAGCATCACTGAGCTGGGCCCCCTACACCCTGGAC	63900
Query	63901	AGGGACAGTCTCTATGTCAATGGTTTCACACAGCGGAGCTCTGTGCCCACTAGCATT	63960
Sbjct	63901	 AGGGACAGTCTCTATGTCAATGGTTTCACACAGCGGAGCTCTGTGCCCACTAGCATT	63960
Query	63961	CCTGGGACCCCCACAGTGGACCTGGGAACATCTGGGACTCCAGTTTCTAAACCTGGTCCC	64020
Sbjct	63961	 CCTGGGACCCCCACAGTGGACCTGGGAACATCTGGGACTCCAGTTTCTAAACCTGGTCCC	64020
Query	64021	TCGGCTGCCAGCCCTCTCCTGGTGCTATTCACTCTCAACTTCACCATCACCAACCTGCGG	64080
Sbjct	64021	 TCGGCTGCCAGCCCTCTCCTGGTGCTATTCACTCTCAACTTCACCATCACCAACCTGCGG	64080
Query	64081	TATGAGGAGAACATGCAGCACCCCTGGCTCCAGGAAGTTCAACACCACGGAGAGGGTCCTT	64140
Sbjct	64081	 TATGAGGAGAACATGCAGCACCCCTGGCTCCAGGAAGTTCAACACCACGGAGAGGGTCCTT	64140
Query	64141	CAGGGCCTGCTCAGGTCCCTGTTCAAGAGCACCAGTGTGGCCCTCTGTACTCTGGCTGC	64200
Sbjct	64141	 CAGGGCCTGCTCAGGTCCCTGTTCAAGAGCACCAGTGTGGCCCTCTGTACTCTGGCTGC	64200
Query	64201	AGACTGACTTTGCTCAGGCCTGAAAAGGATGGGACAGCCACTGGAGTGGATGCCATCTGC	64260
Sbjct	64201	 AGACTGACTTTGCTCAGGCCTGAAAAGGATGGGACAGCCACTGGAGTGGATGCCATCTGC	64260
Query	64261	ACCCACCACCCTGACCCCAAAAGCCCTAGGCTGGACAGAGAGCAGCTGTATTGGGAGCTG	64320
Sbjct	64261	 ACCCACCACCCTGACCCCAAAAGCCCTAGGCTGGACAGAGAGCAGCTGTATTGGGAGCTG	64320
Query	64321	AGCCAGCTGACCCACAATATCACTGAGCTGGGCCACTATGCCCTGGACAACGACAGCCTC	64380
Sbjct	64321	 AGCCAGCTGACCCACAATATCACTGAGCTGGGCCACTATGCCCTGGACAACGACAGCCTC	64380
Query	64381	TTTGTCAATGGTTTCACTCATCGGAGCTCTGTGTCCACCACCAGCACTCCTGGGACCCCC	64440
Sbjct	64381	 TTTGTCAATGGTTTCACTCATCGGAGCTCTGTGTCCACCACCAGCACTCCTGGGACCCCC	64440
Query	64441	ACAGTGTATCTGGGAGCATCTAAGACTCCAGCCTCGATATTTGGCCCTTCAGCTGCCAGC	64500
Sbjct	64441	 ACAGTGTATCTGGGAGCATCTAAGACTCCAGCCTCGATATTTGGCCCTTCAGCTGCCAGC	64500
Query	64501	CATCTCCTGATACTATTACCCCTCAACTTCACCATCACTAACCTGCGGTATGAGGAGAAC	64560
Sbjct	64501	 CATCTCCTGATACTATTACCCCTCAACTTCACCATCACTAACCTGCGGTATGAGGAGAAC	64560
Query	64561	ATGTGGCCTGGCTCCAGGAAGTTCAACACTACAGAGAGGGTCCTTCAGGGCCTGCTAAGG	64620
Sbjct	64561	 ATGTGGCCTGGCTCCAGGAAGTTCAACACTACAGAGAGGGTCCTTCAGGGCCTGCTAAGG	64620



Query	64621	CCCTTGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTCCAGGCTGACCTTGCTC	64680
Sbjct	64621	CCCTTGTTCAAGAACACCAGTGTTGGCCCTCTGTACTCTGGCTCCAGGCTGACCTTGCTC	64680
Query	64681	AGGCCAGAGAAAGATGGGGAAGCCACCGGAGTGGATGCCATCTGCACCCACCGCCCTGAC	64740
Sbjct	64681	AGGCCAGAGAAAGATGGGGAAGCCACCGGAGTGGATGCCATCTGCACCCACCGCCCTGAC	64740
Query	64741	CCCACAGGCCCTGGGCTGGACAGAGAGCAGCTGTATTTGGAGCTGAGCCAGCTGACCCAC	64800
Sbjct	64741	CCCACAGGCCCTGGGCTGGACAGAGAGCAGCTGTATTTGGAGCTGAGCCAGCTGACCCAC	64800
Query	64801	AGCATCACTGAGCTGGGCCCTACACACTGGACAGGGACAGTCTCTATGTCAATGGTTTC	64860
Sbjct	64801	AGCATCACTGAGCTGGGCCCTACACACTGGACAGGGACAGTCTCTATGTCAATGGTTTC	64860
Query	64861	ACCCATCGGAGCTCTGTACCCACCACCAGCACCGGGGTGGTCAGCGAGGAGCCATTCA	64920
Sbjct	64861	ACCCATCGGAGCTCTGTACCCACCACCAGCACCGGGGTGGTCAGCGAGGAGCCATTCA	64920
Query	64921	CTGAACTTCACCATCAACAACCTGCGCTACATGGCGGACATGGGCCAACCCGGCTCCCTC	64980
Sbjct	64921	CTGAACTTCACCATCAACAACCTGCGCTACATGGCGGACATGGGCCAACCCGGCTCCCTC	64980
Query	64981	AAGTTCAACATCACAGACAACGTCATGAAGCACCTGCTCAGTCCTTTGTTCCAGAGGAGC	65040
Sbjct	64981	AAGTTCAACATCACAGACAACGTCATGAAGCACCTGCTCAGTCCTTTGTTCCAGAGGAGC	65040
Query	65041	AGCCTGGGTGCACGGTACACAGGCTGCAGGGTCATCGCACTAAGGTCTGTGAAGAACGGT	65100
Sbjct	65041	AGCCTGGGTGCACGGTACACAGGCTGCAGGGTCATCGCACTAAGGTCTGTGAAGAACGGT	65100
Query	65101	GCTGAGACACGGGTGGACCTCCTCTGCACCTACCTGCAGCCCCCTCAGCGGCCCAGGTCTG	65160
Sbjct	65101	GCTGAGACACGGGTGGACCTCCTCTGCACCTACCTGCAGCCCCCTCAGCGGCCCAGGTCTG	65160
Query	65161	CCTATCAAGCAGGTGTTCCATGAGCTGAGCCAGCAGACCCATGGCATCACCCGGCTGGGC	65220
Sbjct	65161	CCTATCAAGCAGGTGTTCCATGAGCTGAGCCAGCAGACCCATGGCATCACCCGGCTGGGC	65220
Query	65221	CCCTACTCTCTGGACAAAGACAGCCTCTACCTTAACGGTTACAATGAACCTGGTCTAGAT	65280
Sbjct	65221	CCCTACTCTCTGGACAAAGACAGCCTCTACCTTAACGGTTACAATGAACCTGGTCTAGAT	65280
Query	65281	GAGCCTCCTACAACCTCCCAAGCCAGCCACCACATTCTGCCTCCTCTGTCAGAAGCCACA	65340
Sbjct	65281	GAGCCTCCTACAACCTCCCAAGCCAGCCACCACATTCTGCCTCCTCTGTCAGAAGCCACA	65340
Query	65341	ACAGCCATGGGGTACCACCTGAAGACCCTCACACTCAACTTCACCATCTCCAATCTCCAG	65400
Sbjct	65341	ACAGCCATGGGGTACCACCTGAAGACCCTCACACTCAACTTCACCATCTCCAATCTCCAG	65400
Query	65401	TATTACACAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCTTCAG	65460
Sbjct	65401	TATTACACAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCTTCAG	65460
Query	65461	CACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCTTCTACTTGGGTTGCCAA	65520
Sbjct	65461	CACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCTTCTACTTGGGTTGCCAA	65520
Query	65521	CTGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCTGCACC	65580
Sbjct	65521	CTGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCTGCACC	65580
Query	65581	TACCACCCTGACCCTGTGGGCCCGGGCTGGACATACAGCAGCTTTACTGGGAGCTGAGT	65640

Sbjct	65581	TACCACCCTGACCCTGTGGGCCCCGGGCTGGACATACAGCAGCTTTACTGGGAGCTGAGT	65640
Query	65641	CAGCTGACCCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTC	65700
Sbjct	65641	CAGCTGACCCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTC	65700
Query	65701	ATCAATGGCTATGCACCCCAGAATTTATCAATCCGGGGCGAGTACCAGATAAAATTTCCAC	65760
Sbjct	65701	ATCAATGGCTATGCACCCCAGAATTTATCAATCCGGGGCGAGTACCAGATAAAATTTCCAC	65760
Query	65761	ATTGTCAACTGGAACCTCAGTAATCCAGACCCCCACATCCTCAGAGTACATCACCCCTGCTG	65820
Sbjct	65761	ATTGTCAACTGGAACCTCAGTAATCCAGACCCCCACATCCTCAGAGTACATCACCCCTGCTG	65820
Query	65821	AGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTC	65880
Sbjct	65821	AGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTC	65880
Query	65881	CGCTTCTGCCTGGTCAACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTG	65940
Sbjct	65881	CGCTTCTGCCTGGTCAACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTG	65940
Query	65941	TTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAAT	66000
Sbjct	65941	TTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAAT	66000
Query	66001	GCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATG	66060
Sbjct	66001	GCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATG	66060
Query	66061	GAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTT	66120
Sbjct	66061	GAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTT	66120
Query	66121	ACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAG	66180
Sbjct	66121	ACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAG	66180
Query	66181	AGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAG	66240
Sbjct	66181	AGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAG	66240
Query	66241	AGTTATTTTCTGACTGTCAAGTTTCAACATTCAAGTCTGTCCCCAACAGGCACCACACC	66300
Sbjct	66241	AGTTATTTTCTGACTGTCAAGTTTCAACATTCAAGTCTGTCCCCAACAGGCACCACACC	66300
Query	66301	GGGGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATC	66360
Sbjct	66301	GGGGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATC	66360
Query	66361	TATGAGGAATTTCTGCGGATGACCCGGAATGGTACCCAGCTGCAGAACTTCACCCTGGAC	66420
Sbjct	66361	TATGAGGAATTTCTGCGGATGACCCGGAATGGTACCCAGCTGCAGAACTTCACCCTGGAC	66420
Query	66421	AGGAGCAGTGTCTTGTGGATGGGTATTCTCCCAACAGAAATGAGCCCTTAACTGGGAAT	66480
Sbjct	66421	AGGAGCAGTGTCTTGTGGATGGGTATTCTCCCAACAGAAATGAGCCCTTAACTGGGAAT	66480
Query	66481	TCTGACCTTCCCTTCTGGGCTGTCATCCTCATCGGCTTGGCAGGACTCCTGGGACTCATC	66540
Sbjct	66481	TCTGACCTTCCCTTCTGGGCTGTCATCCTCATCGGCTTGGCAGGACTCCTGGGACTCATC	66540
Query	66541	ACATGCCTGATCTGCGGTGTCCTGGTGACCACCCGCCGGCGGAAGAAGGAAGGAGAATAC	66600
Sbjct	66541	ACATGCCTGATCTGCGGTGTCCTGGTGACCACCCGCCGGCGGAAGAAGGAAGGAGAATAC	66600

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Query  66601  AACGTCCAGCAACAGTGCCCAGGCTACTACCAGTCACACCTAGACCTGGAGGATCTGCAA  66660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct  66601  AACGTCCAGCAACAGTGCCCAGGCTACTACCAGTCACACCTAGACCTGGAGGATCTGCAA  66660

Query  66661  TGACTGGAACCTTGCCGGTGCCTGGGGTGCCTTTCCCCCAGCCAGGGTCCAAAGAAGCTTG  66720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct  66661  TGACTGGAACCTTGCCGGTGCCTGGGGTGCCTTTCCCCCAGCCAGGGTCCAAAGAAGCTTG  66720

Query  66721  GCTGGGGCAGAAATAAAACCATATTGGTCGG  66750
          ||||||||||||||||||||||||||||
Sbjct  66721  GCTGGGGCAGAAATAAAACCATATTGGTCGG  66750

```

CPU time: 0.17 user secs. 0.02 sys. secs 0.19 total secs.

```

Lambda      K      H
      1.33    0.621  1.12

```

#### Gapped

```

Lambda      K      H
      1.33    0.621  1.12

```

```

Matrix: blastn matrix:1 -2
Gap Penalties: Existence: 5, Extension: 2
Number of Sequences: 1
Number of Hits to DB: 297,193
Number of extensions: 10780
Number of successful extensions: 3786
Number of sequences better than 10.0: 1
Number of HSP's gapped: 1
Number of HSP's successfully gapped: 1
Length of query: 66765
Length of database: 17,671,372,779
Length adjustment: 30
Effective length of query: 66735
Effective length of database: 17,671,372,749
Effective search space: 1179299060404515
Effective search space used: 1179299060404515
X1: 11 (21.1 bits)
X2: 26 (50.0 bits)
X3: 26 (50.0 bits)
S1: 19 (37.2 bits)
S2: 24 (46.8 bits)

```